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THE  
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OR THE  
MATHEMATICAL REPOSITORY;  
An ALMANACK  
For the YEAR of our LORD 1802:

BEING THE  
SIXTH AFTER BISSEXTILE.  
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The golden Zones of Heaven: to some she gave  
To weigh the Moment of eternal Things,  
Of Time, and Space, and Fate's unbroken Chain,  
And Will's quick Impulse. AKENSIDE.

L O N D O N  
Printed for the Company of STATIONERS,  
By NICHOLS and SON, Red Lion Street.  
And Sold by GEORGE GREEN, near the Theatre, to the  
Company, at their Hall, LUDGATE, 1802.

[Price Seventeen Pence stitched.]

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ATQ

Of the ECLIPSES, &c. in the Year 1802.

There will be four. Two of each Luminary, as follows:

March 4th in the Morning, the Sun will be eclipsed, but invisible at Greenwich. The Conjunction will be at 55 minutes past 4 in longitude  $1^{\circ} 57'$ , Moon's lat.  $42^{\circ} \frac{1}{2}'$  S. The Sun will be centrally eclipsed on the Meridian at 4 ho. 23 min.  $\frac{1}{2}$  in longitude  $114^{\circ} 9' \frac{1}{2}$  East, and lat.  $58^{\circ} \frac{1}{2}'$  South.

March 19th the Moon will be eclipsed, invisible at Greenwich, beginning at 49 min.  $\frac{1}{2}$  past 9 in the morning. Middle 6 min. past 11. Ecliptic opposition 15 min. past 11. End 22 min.  $\frac{1}{2}$  past 12. Digits eclipsed  $3^{\circ} 16'$  on the Moon's North limb.

August 28th in the morning, partly visible at Greenwich. The Sun rises eclipsed at 5 min. past 5. Visible conjunction at 17 minutes  $\frac{1}{2}$  past 5. Greatest obscuration at 18 min.  $\frac{1}{2}$  past 5. End 13 min. past 6. Digits eclipsed  $4^{\circ} 44'$  on the Sun's North limb.

September 11th at night, the Moon will be eclipsed visible at Greenwich. Beginning 9 h. 13 min.  $\frac{1}{2}$ . Middle 10 h. 39 min.  $\frac{1}{2}$ . Ecliptic opposition 10 ho. 45 min.  $\frac{1}{2}$ . End 12 ho. 5 min. Digits eclipsed  $9^{\circ} 12'$  on the Moon's South limb.

There will also be a transit of Mercury over the Sun's disk, on the 9th day of November in the morning. Beginning at 29 min. past 6, the ingress of the Planet's centre upon the Sun's disk. Lat. of Mercury  $1^{\circ} \frac{1}{2}'$  S. Egress at noon, Mercury's Lat. then  $3^{\circ} \frac{1}{2}'$  N.

*Venus* this year will be a morning star till the 17th of March, and after that an evening star to the year's end.

*Jupiter* will be a morning star till the 20th of February, then an evening star till the 9th of September, when he becomes a morning star till the year's end.

The weather column is that for the year 1800.

(16) QUEST. 842. in the present Diary, I have had by me about 20 years. A few years after, it, with more than fifty other similar ones, was communicated to a nobleman, while I had still some faint hopes left of benefiting my circumstances by the study of the Mathematics. It is here given because applicable to the *Quest.* that follows it, whose geometrical answer cannot so well be given without the help of some such instrument. Otherwise, it and the rest had only served, with some hundred others, to verify what the poet *Gray* says,

169183  
 And waste in sweetnoess on the desert air.

ASTOR, LENOX AND

TILDEN FOUNDATION

All letters for the use of this work are desired to be directed thus  
 To the Author of the Gentleman's Diary, Stationers-Hall, London;  
 and are to be sent before the first of May, 1802.



# JANUARY hath XXXI Days

New Moon	4	} Day { at {	8 h. 8 m. Morning.	1	22° 3'
First Quarter	11		0 4 Morning.	6	22 33
Full Moon	18		9 48 Afternoon.	11	21 52
Last Quarter	27		0 57 Morning.	16	21 1

☉ enters 20th Day, 4 H. 27 M. Afternoon.

1	F	Circumc. hop.	5 m 13	9 m 4	27	frost
2	S		6 36	10 1	28	deep fr.
3	C	2d Sunday after Christmas.	7 52	11 6	29	thaw.
4	M		8 sets.	aft. 13	N	misty.
5	T		5 a 15	1 17	1	
6	W	Epiphany. Old Chr. Day.	6 51	2 16	2	moist.
7	T		8 24	3 10	3	tbick.
8	F	Lucian.	9 50	3 59	4	damp.
9	S		11 15	4 46	5	showery
10	C	1st Sunday after Epiphany.	morn.	5 52	6	moist
11	M	Plow Monday.	35	6 17	7	and
12	T	Days increased 26 minutes.	1 53	7 4	8	misty.
13	W	Hilary. Camb. Term begins.	3 14	7 53	9	
14	T	Oxford Term begins.	4 33	8 44	10	
15	F		5 43	9 36	11	
16	S		6 45	10 28	12	fair.
17	C	2d Sunday after Epiphany.	7 32	11 19	13	
18	M	Q. Char. b. d. kept. Prisca.	D rises.	morn.	F	misty.
19	T		4 a 41	8 15	15	snow.
20	W	Fabian. In 8 d. of St. Hil. 1 ret.	5 52	54	16	deep fr.
21	T	Agnes.	7 5	1 37	17	frost.
22	F	Vincent.	8 15	2 18	18	thaw.
23	S	Hilary Term beg. at Westm.	9 26	2 58	19	
24	C	3d Sunday after Epiphany.	10 38	3 37	20	
25	M	Convention of St. Paul.	11 52	4 17	21	mild.
26	T	Days increased 1 hour.	morn.	5 0	22	rain.
27	W	Pr. Aug. Fred. born. In 15	1 10	5 46	23	moist.
28	T	[days of St. Hil. 2 ret.	2 33	6 36	24	
29	F		3 58	7 33	25	stormy.
30	S	K. Char. I m. rt. 1640	5 18	8 34	26	mild.
31	C	4th Sunday after Epiphany.	6 25	9 40	27	

	D	☉	Rises	☉	Sets.	☉	Cl. bef.	☉	D. Break.	Sun	East	Saturn	So	Jupiter	S.	Mars	S
1	8	5	3	55	3	47	6	0	4	41	3 m	54	3 m	47	10 m	26	
6	8	1	3	59	6	6	5	58		43	3	31	3	24	10	26	
11	7	56	4	4	8	13		54		46	3	9	3	1	10	14	
16	7	51	4	9	10	4		49		49	2	47	2	38	10	5	
21	7	44	4	16	11	38		44		53	2	25	2	16	10	4	
26	7	37	4	23	12	53		38		58	2	3	1	54	9	59	

# FEBRUARY hath XXVIII Days.

New Moon	2	Day at	6 h. 34 m.	Afternoon.	1	17° 13'
First Quarter	9		2	1	6	15 44
Full Moon	17		5	8	11	14 9
Last Quarter	25		1	49	16	12 28
☉ near ♀ 19th Day, 7 H. 14 M. Morning.						
					21	10 42
					26	8 52

M	W	Sundays, Holidays, Birth-	Moon	Moon	W	Decl.
D	D	Day, Terms, &c.	R. & S.	South	A	South.
1	M	Days 9 h. 6 m. long.	7 m 12	10 m 44	26	showers
2	T	Purific. B. V. M. or Cand.-day.	sets.	11 48	N	
3	W	Bp. Blas. On mor. of Pur. 3 re.	5 a 41	aft. 46	1	fair
4	T		7 15	1 39	2	
5	F	Agatha.	8 42	2 29	3	
6	S	Old St. Paul.	10 7	3 17	4	misty.
7	C	5th Sunday after Epiphany.	11 31	4 5	5	frost.
8	M		morn.	4 53	6	
9	T	In 8 days of Purif. 4 ret.	5 54	5 43	7	
10	W		2 13	6 34	8	
11	T	Days increased 2 h.	3 29	7 27	9	
12	F	Hilary Term ends.	4 35	8 19	10	
13	S	O. Candlemas-d. Valentine.	5 26	9 11	11	
14	C	Septuagesima Sunday.	6 7	10 1	12	
15	M		6 33	10 48	13	
16	T	Days 10 hours long.	6 53	11 32	14	snow.
17	W		rises.	morn.	F	mild
18	T		5 a 59	15 16		and
19	F		7 14	55 17		fine.
20	S	Days increased 2 h. 30 min.	8 25	1 35	18	fair.
21	C	Sextagesima Sunday.	9 40	2 15	19	fine.
22	M		10 54	2 57	20	mild.
23	T		morn.	3 42	21	cold
24	W	St. Matthias. Pr. Ad. Fred. b.	18 4	30 22		and
25	T	Camb. Term divides m.	1 40	5 23	23	raw.
26	F		3 2	6 21	24	snow.
27	S	Days increased 3 hours.	4 12	7 23	25	
28	C	Quinquagesima Sun. or Shro.	5 5	8 26	26	

D	☉ Rises	☉ Sets	☉ Cl. be.	☉ D. Break.	☉ East	Sat. S.	Jup. S.	Mars S
1	7 24	4 34	13 57	5 30	5 4	3 m 37	1 m 26	9 m 54
6	17	42 14	28	22	9	1 15	1 3	9 5
11	8	51 14	38	14	15	0 53	0 40	9 46
16	0	5 0 14	29	6	21	0 31	0 17	9 43
21	6 50	10 14	1	4 59	27	0 9	11 55	9 40
26	40	20 13	18	48	33	11 48	11 33	0 37

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# MARCH hath XXXI Days.

12. 5 Dec  
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New Moon 4	} Day {	4 h. 55 m.	Morning.	1	7° 4'
First Quarter 11		6 24	Morning.	6	5 40
Full Moon 19		11 15	Morning.	11	3 51
Last Quarter 26		11 7	Afternoon.	16	1 4

21 o Nor  
26 2

☉ enters ♍ 21st Day, at 7 H. 15 M. Morning.

1 M David.	5 m 44	9 m 29	27	inow.
2 T Shrove Tuesday. Chad.	6 8	10 28	28	mild.
3 W Ash Wednesd. Lent begins.	6 26	11 24	29	fleet.
4 T Days 11 h. long. ☉ ecl. inv.	D. sets.	aft. 16	N	mild.
5 F	7 37	1 7	1	frost.
6 S	9 4	1 56	2	
7 C 1st Sun. in Lent. Perpetua.	10 32	2 46	3	
8 M	11 58	3 37	4	
9 T	morn.	4 29	5	
10 W Ember Week.	1 18	5 23	6	
11 T Days increased 3 h. 50 m.	2 29	6 17	7	thaw.
12 F Gregory, M.	3 28	7 10	8	mild.
13 S	4 11	8 1	9	
14 C 2nd Sunday in Lent.	4 41	8 49	10	
15 M	5 4	9 35	11	
16 T	5 21	10 18	12	
17 W St. Patrick.	5 34	10 59	13	
18 T Edw. K. West Sax.	5 40	11 40	14	
19 F ☉ eclips. invis.	D rises.	morn.	F	
20 S	7 23	8	21	16
21 C 3rd Sun. in Lent. Benedict.	8 51	1 2	17	
22 M	10 11	1 46	18	fine
23 T	11 35	2 34	19	grow-
24 W	morn.	3 26	20	ing
25 T Annunciation, or Lady-Day.	58	4 22	21	time.
26 F	2 8	5 21	22	
27 S	3 8	6 23	23	
28 C 4th S. in Lent. Mid. L. S.	3 50	7 24	24	
29 M	4 17	8 22	25	
30 T Days 12 h. 52 m. long.	4 37	9 18	26	stormy.
31 W	4 53	10 10	27	

D	☉ Rises	☉ Sets	Cl. bef. ☉	D. Break	☉ East	Saturn S.	Jupiter S.	Mars S.
1	6 35	5 25	12 45	4 4	5 36	11 2 36	11 2 20	9 m 36
6	25	35	11 40	31	42	11 16	11 0	9 33
11	15	45	10 25	20	48	10 56	10 40	9 30
16	5	55	9 0	10	55	10 36	10 10	9 27
21	5 55	6 5	7 30	0 6	1 10	16 9	59	9 24
26	45	15	5 58	3 48	7 9	57 9	38	9 21

# A P R I L hath XXX Days.

M ☉ Decl.  
D North.

ew Moon	2	} Day at {	3 h. 15 m.	Afternoon.	1	4° 23'
ft Quarter	10		0 25	Morning.	6	6 17
all Moon	18		2 35	Morning.	11	8 9
ft Quarter	25		5 45	Morning.	16	9 58
					21	11 42
					26	13 22

☉ enters 8 20th Day, at 8 H. 15 M. Afternoon:

F		5 m. 8	11 m 128	rain.
F	D. 13 h. long. inc. 5 h. 12 m.	sets. 11 50	N	
S	Richard Bp. of Chichester.	8 a 8	aft. 40	1 mild.
C	5th Sun. in Lent. Ambrose.	9 35	1 31	2 rain.
M		11 0	2 24	3 stormy.
T	Old Lady Day.	morn. 3	19 4	
W		19 4	14 5	
T		1 24	5 9	6 fair.
F	Cambridge Term ends.	2 15	6 2	7 rainy.
S	Oxford Term ends.	2 52	6 52	8
C	6th Sund. in Lent. Palm Su	3 17	7 39	9
M		3 36	8 22	10 showry.
T		3 50	9 4	11
W		4 1	9 45	12 fair.
T	Maundy Thursday.	4 12	10 25	13 fine.
F	Good Friday.	4 22	11 7	14 storms.
S		4 33	11 51	15 cuckow
C	Easter Day.	sets. morn.	F	come
M	Easter Monday. Alphege.	9 a 25	38	17 to a
T	Easter Tuesday.	10 50	1 29	18 green
W	Days increased 6 h. 30 min.	morn. 2	24	19 bush.
T		9 3	23	20 showers
F	St. George.	1 12	4 24	21
S		1 57	5 25	22 rain.
C	1st S. aft. Easter. St. Mark	2 28	6 23	23
M	[Prim. Mary, born]	2 50	7 18	24 mild.
T		3 7	8 10	25 fair.
W	Ox. and Camb. Terms begin	3 21	8 59	26 fine.
T		3 33	9 47	27 showers
F	Days 14 hou. 46 min. long.	3 46	10 36	28 fair.

☉ Rises	☉ Sets	☉ Cl. bef.	☉ D. Break	☉ East	Saturn S.	Jupiter S.	Mars S
5 34	6 26	4 7	3 31	6 15	9 a 34	9 a 15	9 in 18
24	36	2 37	3 21	21 9	15 8	56 9	14
14	46	1 11	3 5	27 8	56 8	37 9	10
5	55	aft. 7	2 52	33 8	37 8	18 9	6
4 55	7 5	1 17	2 38	39 8	18 7	59 9	2
40	14	2 16	2 23	44 7	59 7	40 8	58

# MAY hath XXXI Days.

M. Decl.  
D. North

New Moon	2	} Day at	1 h. 43 m.	Morning.	11 14° 56"
First Quarter	9		6 57	Afternoon.	6 16 25
Full Moon	17		2 37	Afternoon.	11 17 46
Last Quarter	24		10 56	Morning.	16 19
New Moon	31		0 43	Afternoon.	21 20 6
☉ enters II 21st Day, at 8 H. 47 M. Afternoon.					26 21 3

1	S	St. Philip and St. James.	3 m 59	11 m 25	29	windy.
2	C	2d Sun. at Easter. D. 15h. l.	D. 15h. l.	aftr. 17	N	fair.
3	M	Inv. Cross. From East. in 15	9 a 56	1 11	1	fine.
4	T	[days 1 returns. 11	14	2 7	2	rain.
5	W	Easter Term begins.	morn.	3 3	3	fair.
6	T	John Evan. ante Port. Lat.	11	3 57	4	
7	F		55	4 49	5	hund.
8	S		I 21	5 37	6	thund.
9	C	3d Sunday after Easter.	I 44	6 22	7	thund.
10	M	From Easter in 3 weeks 2 ret.	2 0	7 4	8	Eastern
11	T		2 13	7 45	9	winds,
12	W		2 24	8 25	10	and
13	T	Old May Day.	2 34	9 5	11	very
14	F		2 43	9 48	12	dry.
15	S		2 5	10 43	13	
16	C	4th Sunday f. Easter.	3 9	11 23	14	thower
17	M	Prs. W. b. 1768. From East.	D rises.	morn	F	rain.
18	T	[in 1 Mon. 3 ret.	9 a 54	17 16	15	thower
19	W	Q. Charl. b. 1744. Dunitan.	11 3	1 16	17	wind
20	T		11 57	2 18	8	and
21	F		morn.	3 20	14	thower
22	S	Princess Eliz. born 1770.	32	4 20	20	thower
23	C	5th Sun. after East. Rogat. S.	57	5 16	21	
24	M	From Easter in 5w. 4 return.	I 14	6 8	22	fine an
25	T		I 29	6 57	23	season
26	W	Augustin 1st Abp. of Canter.	I 40	7 44	24	able to
27	T	Ascension Holy Th. Ven. Bed.	I 53	8 31	25	the enc
28	F	On morrow of Asc. 5 return.	2 7	9 19	26	
29	S	K. Charles II. restored 1660.	2 21	10 8	27	
30	C	Sun. aft. Ascen. Day.	2 41	11 0	28	
31	M	Easter Term ends.	D sets.	11 55	N	

D	☉ Rises	☉ Sets	☉ Cl. aft.	☉ D. Break	☉ East	Saturn S.	Jupiter S.	Mars
1	4 37	7 23	3 2	2 5	6 50	7 a 40	7 a 22	8 m
6	28	32	3 24	1 51	56	7 21	7 3	8 4
11	20	40	3 53	1 29	7 0	7 2	6 43	8 4
16	13	47	3 58	1 6	5 6	6 43	6 24	8 4
21	6	54	3 49	0 30	9 6	6 24	6 6	8 4
26	3 59	8 1	3 26	No night	11 6	c 5	49	8 4



# JUNE hath XXX Days.

1st Quarter	8	Day at	0 h. 48 m.	Afternoon.	11	22	0	
Full Moon	15		11 50	Afternoon.	6	22	37	
3rd Quarter	22		4 1	Afternoon.	11	23	4	
New Moon	30		0 58	Morning.	16	23	21	
☉ enters 25 22d Day, at 5 H. 17 M. Morning.					21	23	2	
						26	23	24

T	Nicomede.	9 a 59	aft.	50	1	
W		10 43	1	46	2	
T	Oxf. T. ends. Cam. T. di. m.	11 22	2	38	3	
F	K. Geo. III b. 1738.	11 45	3	28	4	rain.
S	D. of Cumb. b. 1771. Bonif.	mo. 2.	4	14	5	
C	Whit Sunday.		3	4	57	6
M	Whit Monday.		15	5	38	7
T	Whit Tuesday.		28	6	17	8 showry.
W	Ember Week.		38	6	57	9
T			48	7	38	10
F	St. Barnabas.		58	8	21	11
S			1	10	9	8 12
C	Trinity Sunday.		1	26	10	0 13
M	On morrow of H. T. 1 ret.		1	47	10	58 14
T			Rises. morn.		F	fair.
W	Oxford Term begins.	9 a 46	0	0	16	
T	Alban. Corpus Christi.	10 29	1	3	17	
F	Trinity Term beg.	10 57	2	6	18	
S	[k W Sax.	11 15	3	5	19	
C	1st Sun. aft. Trinity. Tr. Edw.	11 32	3	59	20	
M	In 8 d. H Tr. 2 r. [Long. d.	11 44	4	50	21	small
T	[16 ho. 34 m. long.	11 56	5	38	22	showers
W		morn.	6	25	23	but the
T	St. John Bap. Midsum-day		8	7	11	24 weather
F			22	8	0	25 fine for
S			40	8	50	26 the ear.
C	2d Sun. aft. Trinity.		1	5	9	43 27 ly hay.
M	In 15 Days, H. Trin. 3 ret.		1	38	10	37 28
T	St. Peter.		2	24	11	32 29
W	Days decreased 5 minutes.		Rises. af.		26 N	

☉ Rises	☉ Sets	Cl. aft. ☉		☉ East	Saturn S.	Jupiter S.	Mars S
3 52	8 8	2 42	No	7 16	5 a 41	5 a 28	8 m 12
48	12 1	54	real	18 5	5 5	5 9	8 10
45	15 0	58	Night	19 5	3 4	51	8 3
43	17	bef.	in	20 4	44	4 33	7 56
43	17	1 7	Bri-	21 4	24	4 15	7 49
44	16	2 11	tain.	20 4	4	3 57	7 43

# JULY Bath XXXI Days.

Full Moon	15	Day	4 h 57 m.	Morning.	1	23	10
1st Quarter	21	at	7 28	Morning.	6	22	46
New Moon	29		10 32	Afternoon.	11	22	12
			3 4	Afternoon.	16	21	29
					21	20	26
					26	19	35

☉ enters ♌ 2d Day, 4 H 29 M. Afternoon.

1	T		9 a 43	1 a 16	1		
2	F	Vis. of B. V. Mary.	10 3	2 4	2	A	
3	S	Dog-days begin.	10 18	2 48	3		
4	C	3d S. af. Trin. Tr. St. Mar.	10 29	3 29	4		
5	M	In 3 Weeks of H. Trin. 4 ret.	10 39	4 8		very	
6	T	Camb. Com. Old Mid. Day.	10 48	4 47	6		
7	W	Trin. T. ends. Tho. à Becket.	10 58	5 27	7		
8	T		11 9	6 8	8	hot an	
9	F	Camb. Term ends.	11 24	6 53	9		
10	S		11 43	7 42	10		
11	C	4th Sun. after Trinity.	morn. 8	36	11	dry	
12	M	Oxford A.C.	10 9	35	12		
13	T		5 2	10 39	13		
14	W	Days decreased 26 min.	1 53	11 43	14	season	
15	T	Swithin.	D riles	morn.	F		
16	F		9 a 14	45	16		
17	S	Oxford Term ends.	9 32	1 43	17	during	
18	C	5th Sunday after Trinity.	9 46	2 38	18		
19	M		9 59	3 28	19		
20	T	Margaret.	10 10	4 17	20	nearly	
21	W	Days decreased 44 minutes.	10 25	5 4	21		
22	T	Magdalen.	10 41	5 53	22		
23	F		11 4	6 49	23	the	
24	S		11 34	7 35	24		
25	C	6th S. af. Trinity. St James.	morn. 8	29	25		
26	M	Anne.	0 15	9 23	26	whole	
27	T		1 11	10 17	27		
28	W	Days decreased 1 hour.	2 17	11 9	28		
29	T		D lets.	11 57	N	month	
30	F		8 a 22	aft. 43	1		
31	S		8 34	1 25	2		

D.	☉ Rises	☉ Sets	Cl. bef. ☉	D. Break	☉ East	Saturn S.	Jupiter S.	Mars S.
1	3 46	8 14	3 13		7 19	3 a 45	3 a 40	7 m 3
6	49	11 4	9	No	12	3 25	3 23	7 3
11	53	7 4	55	real	15 3	8 3	6 7	7 2
16	58	2 5	32	Night.	12 2	50	2 49	7 1
21	4 4	7 56	54		9 2	32	2 32	7
26	11	49	6 4		5 2	14	2 16	7

# AUGUST hath XXXI Days.

Deci.  
North.

First Quarter	6	} Day at {	6 h. 55 m.	Afternoon.	11	18° 10.
Full Moon	13		2 43	Afternoon.	6	16 51
Last Quarter	20		7 14	Morning.	11	15 27
New Moon	28		7 0	Morning.	16	13 55
					21	12 18
					26	10 36

☉ enters ♍ 23d Day, at 10 H. 39 M. Afternoon.

1	C	7th Sun. aft. Trin. Lam.-d.	8 a 43	2 a 5	3	A
2	M		8 56	2 44	4	droug't
3	T		9 5	3 23	5	
4	W		9 15	4 3	6	
5	T		9 28	4 46	7	
6	F	Transfiguration.	9 43	5 32	8	
7	S	N. Jesus. Prs. Amelia b. 1783.	10 7	6 23	9	
8	C	8th Sunday after Trinity.	10 41	7 19	10	
9	M		11 31	8 19	11	
10	T	Lawrence.	morn.	9 22	12	
11	W	Ds. Bruf b. 1737.	0 42	10 26	13	
12	T	Pr. of Wales born 1762.	2 13	11 26	14	
13	F	Old-Lammas Day.	D riles.	morn.	F	
14	S		7 a 52	0 24	16	
15	C	9th Sun. after Trin. Assum.	8 6	1 13	17	
16	M	D. o. York b. 1703.	8 18	2 9	18	
17	T		8 32	2 59	19	
18	W		8 50	3 49	20	thund
19	T		9 10	4 40	21	and
20	F		9 39	5 33	22	rain.
21	S	D. of Clarence b. 1765.	10 17	6 28	23	
22	C	10th Sunday after Trinity.	11 8	7 23	24	rainy
23	M	Days 14 hou. long.	inorn.	8 17	25	for
24	T	St. Bartholomew.	11 9	9 26	26	some
25	W		1 23	9 59	27	days.
26	T		2 37	10 45	28	
27	F		3 51	11 29	29	
28	S	Augustine, of H. ☉ ecl. inv.	D sets.	aft. 10	N	
29	C	11 S. af. Tr. John Bapt. beh.	7 a 8	49	1	fair.
30	M		7 18	1 28	2	fine.
31	T		7 29	2 8	3	

D	☉ Rises	☉ Sets	Cl. bef. ☉	D. Break	☉ East	Saturn S.	Jupiter S.	Mars S.
1	4 20	7 40	5 57	1 24	6 59	1 53	1 57	6 m 54
6	27	33	5 34	1 44	54	1 36	1 42	6 43
11	36	24	4 56	2 2	49	1 19	1 27	6 43
16	45	15	4 4	20	44	1 2	1 12	6 36
21	54	6	3	35	38	0 46	0 57	6 21
26	5	3	6 57	1 42	33	0 30	0 42	6 26

SEPTEMBER hath XXX Days. | M | ☉ Decl.  
D | North.

First Quarter	5	} Day at	{	6 h. 41 m.	Morning.	1	8° 28'	
Full Moon	11			10	46	Afternoon.	6	6 38
Last Quarter	18			7	36	Afternoon.	11	4 45
New Moon	26			11	56	Night.	16	2 59
						21	0 54	
☉ enters $\approx$ 23d Day, at 7 H. 8 M. Afternoon.						26	51 3	

1	W	Giles Ab. & C.	7 a 42	2 a 50	4	fair.
2	T	London burnt 1666. O. S.	7 55	3 24	5	fine.
3	F		8 13	4 22	6	thun-
4	S		8 44	5 15	7	der and
5	C	12th Sun. af. Tr.	9 25	6 12	8	rain.
6	M		10 26	7 13	9	
7	T	Enurhus.	11 45	8 14	10	
8	W	Nativity of the B. V. Mary.	morn.	9 15	11	season-
9	T		1 18	10 13	12	able.
10	F		2 53	11 9	13	harvest
11	S	☉ eclipsed visible.	☉ rises.	morn.	F	weather
12	C	13th Sunday after Trinity.	6 a 32	1 15		
13	M		6 46	53	16	
14	T	Holy Cross.	7 2	1 45	17	
15	W	Ember Week.	7 22	2 37	18	
16	T		7 46	3 32	19	
17	F	Lambert,	8 22	4 27	20	
18	S		9 10	5 24	21	hunde
19	C	14th Sunday after Trinity.	10 10	6 20	22	thows
20	M		11 20	7 13	23	
21	T	St. Matthew the Evangelist.	morn.	8 4	24	storms
22	W	K. Geo. III. crowned 1761.	0 34	8 52	25	of
23	T	Equal day and night.	1 48	9 36	26	wind
24	F		3 1	10 18	27	and
25	S		4 12	10 58	28	rain.
26	C	15th Sunday after Tr. Cypr.	☉ sets.	11 37	N	
27	M		5 a 47	aft.	17	fair.
28	T		6 0	59	2	rain.
29	W	St. Mich. Ds. Wirt. b. 1766.	6 13	1 42	3	howry
30	T	Jerome.	6 37	2 29	4	

☉ Rise.		☉ Sets		Cl. aft. ☉		D. Break		☉ East		Saturn S.		Jupiter S.		Mars S.		
1	5	15	6	45	0	1	3	7	6	26	0	a	11	0	a	25
6		25		35	1	37		21		20	11	m	55	0	11	6
11		34		26	3	19		34		14	11		39	11	m	57
16		44		16	5	4		45		8	11		23	11		43
21		54		6	6	49		56		2	11		8	11		29
26	6	4	5	56	8	31	4	7	5	55	10	53	11	15	5	4

# OCTOBER ha'h XXXI Days.

M D Decl South.

First Quarter 4 } Day { 4h. 36 m. Afternoon.  
Full Moon 11 } at { 7 58 Morning.  
Last Quarter 18 } { 11 56 Morning.  
New Moon 26 } { 4 34 Afternoon.

1 3° 0  
6 4 57  
11 6 57  
16 8 44  
21 10 33  
26 12 18

☉ enters M 24th Day, at 3 H. 8 M. Morning.

1	F	Remigius, Bp.	6 a 56	3 a 20	5 showry
2	S		7 32	4 15	6
3	C	16th Sun. after Trinity.	8 26	5 13	7
4	M		9 37	6 13	8
5	T		11 1	7 12	9
6	W	Faith, V. M.	morn.	8 9	10
7	T		32	9 3	11
8	F		2 4	9 56	12 fair.
9	S	Denys, B. M. D. 11 h. long.	3 39	10 47	13 wind
10	C	17th Su. aft. Trin. O. & C.	5 2	11 38	14 and
11	M	Old Mich-d. [Term begins.	D rises.	morn.	F showers
12	T		5 a 32	30	16
13	W	Trans. K. Ed. Conf.	5 55	1 25	17 A very
14	T		6 26	2 21	18 fine
15	F		7 9	3 19	19 season
16	S	Days decreased 6 hours.	8 7	4 17	20 for the
17	C	18th Su. of Trin. Ethel. V.	9 14	5 13	21 wheat
18	M	St. Luke, Evang.	10 28	6 6	22 seed-
19	T		11 41	6 55	23 time
20	W		morn.	7 40	24 and
21	T		54	8 23	25 latter
22	F		2 6	9 3	26 harvest
23	S		3 16	9 42	27 in the
24	C	19th Sunday after Trinity.	4 27	10 22	28 North.
25	M	K. Geo. III. A. Crispin.	5 39	11 3	29
26	T	K. Geo. III. Procl. 1760.	D sets.	11 46	N
27	F		4 a 43	aft.	32 1
28	T	St. Simon and St. Jude.	5 7	1 22	2
29	F		5 40	2 16	3
30	S		6 28	3 14	4
31	C	20th Sunday after Trinity.	7 33	4 12	5

☉	Rises	☉	Sets	Ch. aft.	☉	D. Break	☉	East	Saturn S.	Jupiter S.	Mars S.
1	6 14	5	46 10	10	4	18	5	49 10 m	37 11 m	1	5 m 36
6	24		36 11	41		29		43 10	21 10	47	5 26
17	31		27 13	4		39		37 10	5 10	32	5 16
16	43		17 14	14		49		31 9	49 10	17	5 6
17	53		7 15	10		59		21 9	32 10	2	4 55
15	7 2	4	58 15	50	5	8		19 9	15 9	47	4 44



# NOVEMBER hath XXX Days. M. Dec. 1 D. South.

First Quarter 3	} Day {	1 h. 11 m. Morning.	1 14 18
Full Moon 9		6 47 Afternoon.	6 15 53
Last Quarter 17		7 43 Morning.	11 17 20
New Moon 25		7 55 Morning.	16 18 30

☉ enters ♌ 22d Day, at 11 H. 25 M. Night.

1 M. All Saints.	8 2 54	5 2 12	10 18
2 T. D. Kent, b. 1767. All Souls.	10 19	6 7	
3 W. Ps. Sop. o. 1777. On m. all S.	11 48	7 0	
4 T. King William Land. [1 ret.	morn.	7 51	
5 F. Powder Plot, 1605. O. S.	1 16	8 40	
6 S. Leonard. Mich. T. beg.	2 43	9 29	high
7 C. 21st Sunday after Trinity.	4 10	10 19	wind
8 M. Mrs Aug Soph bo. 1708.	5 37	11 11	rain.
9 T. Lord Mayor's Day at Lond.	Drises	morn.	F
10 W.	4 2 24	0 6 15	mild
11 T. Martin.	5 0	1 4 16	and
12 F. On mor. Mart. 2 ret. Ca. T.	5 54	2 2 17	moder.
13 S. Brilius. [div. at mid.	6 59	3 1 18	no.
14 C. 22d Sunday after Trinity.	8 11	3 56 19	Corn
15 M. Machutus. Da. 8 h. 42 m. 1	9 25	4 47 20	still
16 T.	10 40	5 34 21	very
17 W. Hugh Bp. of Lincoln.	11 51	6 18 22	dear.
18 T. In 8 days of St. Mart. 3 ret.	morn.	6 59 23	
19 F.	1 0	7 38 24	
20 S. Edmund K. & M.	2 11	8 18 25	
21 C. 23d Sunday after Trinity.	3 21	8 57 26	
22 M. Cecilia.	4 33	9 38 27	
23 T. Clement. Old St. Martin.	5 49	10 23 28	
24 W.	7 8	11 12 29	rain
25 T. D. of Glo. b. 1743. Cath. in	D sets.	aft. 5 N	and
26 F. [15 d. of St. Mart. 4 ret.	4 2 17	1 2 1	flow.
27 S.	5 15	2 1 2	irrolly.
28 C. Advent Sunday. Mich. T. en.	6 36	3 1 3	
29 M.	8 2	3 58 4	
30 T. St. Andrew.	9 31	4 52 5	

D. ☉	Rises	☉ Sets	☉ Cl. aft.	☉ D. Break	☉ East	Saturn S.	Jupiter S.	Mars S.
1	7 13	4 47	16 12	5 17	3 12	8 m 54	9 m 20	4 m 27
6	22	38	16 10	24	7	35	9 11	4 7
11	30	30	15 48	32	1	16	8 53	3 4
16	38	22	15 4	37	4	57	8 36	3 27
21	45	15	14 0	43	52	38	8 19	3 7
26	52	8	13 37	40	49	7	8 2	2 47

DECEMBER hath XXXI Days.										M	Decl.						
										D	South.						
First Quarter 2		Day	{	9	h.	4	m.	Morning.	1	21° 46'							
Full Moon 9				7	40	Morning.	6	22 28									
Last Quarter 17				5	33	Morning.	11	23 0									
New Moon 24				9	40	Afternoon.	16	23 19									
First Quarter 31				5	3	Afternoon.	21	23 28									
☉ enters 22d Day, at 11 H. 51 M. Morning.										26	23 24						
1	W							10 a 57	5 a 42	6	mild.						
2	T							morn.	6 31	7	moist.						
3	F							0 21	7 18	8	cold.						
4	S	Days 8 hours long.						1 43	8 5	9	snow.						
5	C	2d Sunday in Advent,						3 8	8 55	10	rain.						
6	M	Nicholas.						4 36	9 47	11							
7	T							6 3	10 42	12							
8	W	Conception of V. Mary.						7 26	11 39	13	dull						
9	T							D rises.	morn.	F	and						
10	F							4 a 30	37	15	misty.						
11	S							5 40	1 34	16							
12	C	3d Sunday in Advent.						6 56	2 27	17	clear.						
13	M	Lucy, V. M.						8 10	3 16	18							
14	T							9 25	4 1	19	thick.						
15	W	Ember Week.						10 35	4 44	20	dull.						
16	T	O. Sap. Camb. Term ends.						11 44	5 23	21	misty.						
17	F	Oxford Term ends.						morn.	6 2	22							
18	S							54	6 41	23							
19	C	4th Sunday in Advent.						2 4	7 21	24	calm.						
20	M							3 17	8 3	25	mild.						
21	T	St. Thomas. [Shortest Day						4 34	8 50	26	open.						
22	W	[7 ho. 44 m. long.						5 53	9 41	27							
23	T							7 12	10 37	28							
24	F							D sets.	11 36	N							
25	S	Christmas Day.						3 a 56	aft.	37	1						
26	C	1st S. after Christs. St. S c.						5 30	1 36	2							
27	M	St. John.						7 1	2 33	3							
28	T	Holy Innocents.						8 30	3 26	4	frost						
29	W							9 57	4 16	5	and						
30	T							11 22	5 3	6	snow.						
31	F	Silvester, Bp. Days inc. 6 m.						morn.	5 50	7							
D										☉ Rises	☉ Sets	Cl. att.	☉ D. Break	☉ East	Saturn S.	Jupiter S.	Mars S.
1	7	57	4	3	10	49	5	54	4	45	6 m 59	7 m 43	2 m 22				
6	8	2	3	58	8	49		56		43	6 38	7 23	1 52				
11		5		55	6	37		58		41	6 17	7 3	1 21				
16		7		53	4	14	6	0		40	5 56	6 43	0 50				
21		8		52	1	45		1		39	5 34	6 23	0 19				
26		7		53	bef.	44		0		40	5 12	6 3	11 a 48				

ANSWERS to the QUESTIONS critical and philosophical.

CCXI. By Mr. Francis Baker, of Newmarket.

The word *Hal kah*, which the *Septuagint* and *Vulgate* translate *Horeleech*, is thought to signify (here) *Destiny*, the two daughters *Hell* and the *Grow*, which never say it is enough: Or *Lust*, with *Avarice* and *Ambition*, which are never satisfied. Of the former opinion was *Bochart*; and of the latter the learned *Calmet*.

And to the same effect are the answers by Messrs. *Cairns*, *Cowling*, *Glendenning*, *Hindson*, *Kemp*, *Ploughboy*, *Rowe*, *Savage*, *Skilling*, and *Spencer*.

CCXII. By Mr. J. Cairns, of Old Bewick.

The reason of drunkards fancying themselves double-sighted, is owing to the undigested fumes from the stomach into the head, making it light, or giddy, which makes the orb of the eye swell with a watery humour: and candle light especially affords people that are drunk sufficient ground to believe themselves to see double objects. And it is owing very often to this that they stagger and stumble.

Like answers are also given by Messrs. *Glendenning*, *Hindson*, *Neosforensis*, *Ploughboy*, *Rowe*, and *Spencer*.

CCXIII. By Mr. Joseph Hindson, of Lincoln.

I think, from what is said at Pl. 106. 37. Isaiah 57. 5. Ezekiel 16. 20. 21 and 23. 37. 39. 2 Kings 3. 27. and 17. 31. and several other texts, that there is little doubt but the children were really sacrificed to Moloch and other idols. In *Calmet's Dictionary* (Article Moloch) are the opinions of several learned Commentators recited, respecting the manner in which this inhuman sacrifice was performed. I think the following as probable as any. Moloch was of brass, sitting upon a throne of the same metal, adorned with a royal crown, having the head of a calf, and his arms extended as if to embrace any one. When they would offer any children to him, they heated the statue within by a great fire: and when it was burning hot, they put the miserable victim within his arms, which was soon consumed by the violence of the heat: to prevent the cries of the children from being heard, they beat with kettle-drums, and other loud instruments of music. If the children were not always sacrificed, when we read of their passing through the fire, 'tis supposed they were either made to leap over a fire sacred to Moloch, or pass between two fires kindled at a small distance from each other, which might be used as a sort of idolatrous purifying ceremony.

And thus nearly it is answered by Messrs. *Cairns*, *Glendenning*, *Kemp*, *Neosforensis*, *Ploughboy*, *Roberts*, *Rowe*, *Savage*, *Smith* of *Alton-Park*, and *Spencer*.

CCXIV. By *Russus*, of Wrangle.

Dear Sir, myself much grief have undergone,  
Too many causes for it I have known,  
And I must say, it is my firm belief,  
That Solitude will not cure mental grief;  
For, if alone, they're musing on their ills,  
Nought but oppressive thought their fancy fills.

Keep

Keep company with those to mirth inclin'd,  
And if alone some brisk amusement find;  
And that's the way to ease a troubled mind.

And to this purpose are the answers by Messrs. *Glendenning*, *Hindson*, *Kemp*, *Neufwenhis*, and *Ploughboy*; but Messrs. *Cairns*, *Sawyer*, *Rowe*, and *Spencer* declare in favour of Solitude. And indeed, as Mr. *Kemp* observes, much depends upon disposition or turn of mind. Nor can the truth on the other hand be denied of what Mr. *Spencer* asserts, To God above your cares con-

side,  
Let true religion be your guide  
Ye men of thoughtful mood;

And, when oppress'd with painful  
grief,  
You'll find effectual relief,  
In silent solitude.  
But then it will be said, that 'tis religious considerations that work the cure; and indeed without them no lasting ease or true comfort here is to be expected.

#### CCXV. By Mr. *Adam Glendenning*.

In my opinion, the art of curing sympathetically or magnetically is curing imaginatively. And as the imagination operates powerfully in some constitutions, these are most likely to reap benefit from the art.

*Ploughboy* says, it is possible that the ferruginous particles of the blood may attract the magnetic fluid from the pores of the steel, and thereby accelerate the circulation, and enable nature to expel the offending matter. But much depends on the ideas of the patient.

An answer is also given by Mr. *Cairns*.

#### CCXVI. By *A Yorkshire Ploughboy*.

Instances have occurred where an aching tooth has been drawn a little way, and then replaced, which has continued free from pain for many years. Perhaps the nervous cord was thus broken.

Mr. *Glendenning* says, that the cord may be burnt with an actual cautery, and the cavity filled up with gum mastich, which is often attended with much success. Mr. *Rowe* says the same. *Ruficus* recommends the potential cautery introduced in the hollow tooth with lint. Mr. *Hindson*, a red-hot wire, which applied to the cord will effectually ease the pain. *Skilling's B-k-m* says it may be cured by dividing the nerve that passes out of the third hole of the os sphæroïdes. And that the balls growing on the dog-rose, and sweet-briar, contain a maggot, which is said to cure the tooth-ache, and which is much better than the lady-bird.

#### CCXVII. By *F. B. Neufwenhis*.

The *Marquis of Worcester*, to whom the public are indebted for that noble work the Steam Engine, was the inventor of the *Telgraph*. In a very curious and rare little book, written by that Nobleman, in the year 1654, intitled, "A Century of the Names, and Scantlings of such Inventions as at present I can call to mind to have tried and perfected," this method of visual correspondence is particularly noticed. See *Adam's View of Universal History*, Vol. III. p. 410

Messrs. *Cairns*, *Glendenning*, *Ploughboy*, *Ruficus*, and *Savage*, also sent answers to this. But the *Proposer* refers to a curious account in *Polybium* the historian.

#### CCXVIII.

CCXVIII. By Mr. A. Glendenning.

The *Calendrum* of the Latins and the *Kaluvtrou* of the Greeks, it appears, were ornaments made of false hair, and worn on the head. Whence perukes (or something of the same nature) are of a much older date than that referred to by the ingenious proposer.

Dr. *Hodgson* refers to *Ledwich's Ireland*, p. 347, Edit. 1790, Edinb. that Henry I. abolished the wearing perukes. And answers are also given by Messrs. *Cairns*, *Hindson*, and *Ploughboy*.

CCXIX. By *Shillitee*, B—k—m.

*Feweroy*, in his French Elements of Nat. Hist. and Chymistry, 1789, says, that the fire proceeds from minute pieces of the steel melted by the heat caused by collision. And if they be collected and viewed through a magnifier, appear half calcined half vitrified *scoria*, like the drops of forges.

And like answers are also given by Messrs. *Cairns*, *Glendenning*, *Hindson*, *Istt*, *Nesborensis*, *Kemp*, *Ploughboy*, *Rowe*, *Rusticus*, *Savage*, and *Spencer*.

Æ N I G M A T O L O G Y.

ANSWERS to the last Year's ÆNIGMAS.

- |                      |                     |
|----------------------|---------------------|
| 1. A Spider.         | 8. A Knocker.       |
| 2. A Tomb,           | 9. A Table-mat.     |
| 3. A Mole.           | 10. A Blank.        |
| 4. News.             | 11. An Heir at Law. |
| 5. A Wind-Mill.      | 12. Happiness.      |
| 6. The River Severn. | Prize.              |
| 7. A Chair.          | A Wig.              |

- Rebus.* 1. A Thorn. 2. Pillage. 3. Old Age. 4. Wright.  
5. Caprice.

1. A Midnight Conversation. By Mr. FRANCIS ASHES, of Colcock.

As Grandfire and Granny lay waking in bed,  
Contesting the reason of drowsiness of bread,  
Says Granny, 'tis farmers withholding their corn,  
As sure as I *thumb* have, and on them an horn.  
No Bridget, says Grandfire, our neighbour John Pole,  
Who keeps such good ale at the *knocker* and *mole*,  
Says millers and bakers and factors combine  
To fill their own purses the nation to pine;  
If kill-*spider* millers took only their own,  
Nor adulterate flour with whit'ning or bone,  
Our bread would be better, if not quite so big,  
And I more of *happiness* feel in my wig,  
When smoking my pipe in my own elbow *chair*,  
Instructing poor Tommy, our grandson and *beir*.  
Though he never so far as the *Severn* has been,  
As dearly I him as the king loves the queen.  
The *news* he has brought is of a proclamation  
For using economy, thro' the whole nation.  
Instead of three meals, we must now eat but two,  
And thus by frugality get the year through.



But still I have fears all will be like *blank* paper,  
 When put in the fire it will vanish in vapour.  
 And when all is done, they will keep up the price,  
 That *caprice* and *pillage* will join in a trice.  
 To keep firm a conscience unwounded and clear,  
 To the end of *old-age* I will still persevere.  
 Like neighbour John *Wright* with a *thorn* in his hand,  
 Improve and lament will the fins of the land;  
 Pray pride and oppression now less may abound,  
 Lest in anger the Lord stop the fruits of the ground.  
 'Tis bootless, dear Bridget, to say this or that,  
 But still be and quiet as our *table-mat*.

2. An Address to Diarists. By Mr. GEO. BRENTNALL.

G. B. to his friends. Now as well as he can,	III. Reb.
Since <i>old-age</i> has took him past the age of man,	2.
His fingers and <i>thumb</i> cannot much longer write,	Pr.
Yet he ne'er wore a <i>wig</i> , tho' his hair is turn'd white;	7.
In an easy arm'd <i>chair</i> he can still sit and chat,	9.
And with a good dinner wants no <i>table-mat</i> ;	6.
From the <i>Severn</i> he fetches not porter, good ale,	4.
Good <i>news</i> , peace and plenty, how pleasing the tale!	10.
For lottery-blanks now he cares not a straw,	11.
And little he mind needs who's his <i>hair at law</i> .	1. 3.
The <i>spider</i> and <i>mole</i> can him small trouble give;	1. 14.
But should a <i>thorn</i> wound his friend <i>Wright</i> he can grieve,	5. 11.
The <i>mill</i> er who apt is to <i>pillage</i> too much,	8.
Let younger folks give him a <i>knock</i> or a touch.	v.
A foe to <i>caprice</i> , and his chief aim is this,	12.
To walk in the road that he's sure leads to <i>bliss</i> .	

3. The Contented Millers. By Mr. G. H. ISITT, of Stanion.

<i>Matt</i> whistles and sings in his <i>mill</i> all the day,	9. 5.
And at night to his <i>cott</i> will repair,	
Where a glass of good ale drives dull care far away,	
As he sits in his snug elbow <i>chair</i> .	7.
Tho' industry seems to have powdered his <i>wig</i> ,	13.
Yet <i>happiness</i> still he enjoys;	12.
And <i>hair</i> to no fortune, he cares not a fig,	11.
'Tis his plan to be merry and wise.	
None <i>knock</i> at his door with a <i>blank's</i> dreadful <i>news</i> ,	8. 10. 4.
Nor come his calm mind to distress;	
All <i>spider</i> -like malice he scornfully views,	1.
And the poor he disdains to oppress.	
On the <i>Severn's</i> rich banks does this miller reside,	6.
By the <i>mole</i> on his <i>thumb</i> may be found:	3. 2.
He harbours no envy, untainted by pride,	
Content beams his cottage around.	

4. The Old Maid. By Mr. WM. CLARK, Cam's-Hall, Farcham.

An old maiden lady my subject supplies,	
Whom people have thought more capricious than wife:	
If a <i>spider</i> but chance to appear in the room	1.
No quarter she'll give, but in rage bite her <i>thumb</i> .	2.

At being *molested* with monsters like that, 3-  
 What *news* ! but her love was all kept for her cat. 4-  
 The clack of a *mill* she had got in her tongue, 5-  
 Which run like the *Severn* all day and night long. 6-  
 On her *chairs*, *knocker*, tables no speck must be seen, 7- 8-  
 A sign she was cleanly, tho' peevish and mean.  
 Of *mat* was her basket of patches and rags, 9-  
 Like herself as a *blank*, and despis'd by the wage, 10-  
 She with'd for no *beir*, disappointed thro' life, 11-  
 'Twas never her *happiness* to be a wife, 12-  
 And all that wore *wigs* she call'd causes of strife. Pr.

5. On the Mutability of human Affairs. By Mr. B. KEMP.

The *spiders* curious work with ease is broke, 1.  
 Demolish'd by the *thumb* or finger's stroke ; 2.  
 Sunk is the *mole*, this merchandise destroys ; 3-  
 The heavy *news* blasts all the merchants joys. 4-  
 Man, like a *wind-mill*, changes with the air, 5-  
 Unstable as the *Severn's* waters are ; 6-  
 While joy and grief alternate take the *chair*. } 7-  
 To-day Jack *Knocker* lands his gold on shore, 8-  
 To-morrow blasts his basket *mat* and store. 9-  
 To turn to *blanks* what promis'd a fair prize, 10-  
 The gambler for rich *beirs* in ambush lies ; 11-  
 All earthly *happiness* is quickly fled, 12-  
 And a great *wig* oft hides a woe-fraught head. Pr.

6. A Catastrophe. By Mr. D. T. SHERIDAN. Wolverhampton.

Oh *happiness* ! how oft near *Severn's* banks 12. 6.  
 Have you and I enjoy'd our rustic pranks ;  
 My mind elated, and my heart at ease,  
 Like silver lakes fann'd by the gentle breeze !  
 A *spider's* web, or *mole-hill* could delight, 2. 3-  
 Or *news* of *mills* fought by la Mancha's knight. 4. 5-  
 The *Heir at law*, Tom *Thumb* had equal charms, 11. 2.  
 And *chairs* and *table-mats* gave no alarms. 7. 9-  
 A *wig* and *knocker* could my laughter claim, Pr. 8.  
 And *blank* or prize to me were all the same : 10.  
 My friends all true, my lovely maid sincere,  
 My health as blooming as the vernal year :  
 My days delicious, mirthful, gay, and free,  
 My nights as tranquil as the untroubled sea :  
 Thus have the scenes of youth's fair morning past ;  
 But ah ! 'twas follow'd by a killing blast,  
 Which robb'd my fragrant blossom of her charms,  
 And snatch'd my bride untimely from my arms.  
 Thus youth's alluring prospect disappears,  
 And tenfold gloom obscures my future years.

7 An Elegy on J. L. and A. his wife. By A. YORKE: INIAE PLOUGH-  
 NOY, on the Death of his Parents.

Ah ! what dependence can we place on life ?  
 A very *blank* ! how soon its days are fled !

The grave Eugenio, and his loving wife,  
 In one decade are numbered with the dead.  
 An equal yoke and pace they long had born,  
 'Till *old age* bow'd them with a weight of years;  
 Then gather'd in, like ripen'd shocks of corn,  
 And nature's debt was paid with all arrears:  
 In strength of hope they yielded up *their* breath;  
 The *knock*, the call of death, what can remove?  
 Trusting in him that triumph'd over death,  
 Celestial happiness they hop'd to prove.  
 See things all round me now their loss deplore,  
 The *wig*, *mill*, *mat*, and vacant *elbow-chair*;  
 Their long-till'd fields shall know their *thumbs* no more,  
 Where they assiduous toil'd with useful care.  
 How thin the wall *severn* of life and death!  
 A *spider's* work a *mole* may soon break through;  
 A feeble struggle and a parting breath,  
 Eternal ages open then to view.  
 This mournful *news*, attun'd by filial love,  
 Is tribute due to relatives so dear,  
 Whilst warm and fond affections hither move,  
 And kind remembrance draws the tender tear.

8. On the Death of Mr. T. Truswell, many Years Writing-master in the  
 Free Grammar-school, Nuneaton. By Mr. THOMAS BAKER.

As our companions fall away,  
 And moulder into native clay,  
 Reason convinces us, we must,  
 Like them, return to senseless dust.  
 The flesh shall perish, but the mind  
 A life of *happiness* shall find.  
 Yes! every soul of Christian grace,  
 In heaven, shall have a resting place.  
 Our worthy friend, ascending high,  
 Has left us in this lower sky; [earth,  
 Some few short days, at most, on  
 We may remain, and then thro'  
 death,

Likethousands more, removed be  
 To read the final mystery.  
 Alas! all o'er the world, how few  
 Preserve the awful thought in view!

God grant we may it so explain,  
 As not to con our task in vain.  
 He, like our Norley friend, could  
 write,

And solve enigmas with delight.  
 A *spider*, *windmill*, *thumb*, or *beir*,  
 A *mole*, a *blank*, a *mat*, a *chair*,  
 A *wig*, a *knocker*, or the *news*,  
 The river *Sewern*; all his muse,  
 However artfully conceal'd,  
 Would have, in tuneful verse, re-  
 veal'd.

But lo! he soars on blissful wings,  
 And with the choir angelic sings,  
 Choice praises to the King of  
 Kings.

9. On Famine. By Mr. W. SPENCER, of Sapcote.

What *spider*-legg'd monster is here,  
 That has the land under its *thumb*?  
 More fierce than the *mole* or the  
 bear. [dumb

Bad *news* to the deaf and the  
 That *grindeb* the face of the poor,  
 By *Sewern's* bright gravelly bed;

Or, *chair*-man like, rideth them o'er,  
 Or *knocketh* them quite on the head.  
 You *table-mats* now may lay by,  
 Since famine a *blank* has produc'd;  
 The *beir* of the widow may cry,  
 But *happiness* still is refus'd. [wig,  
 Old Grippus, with full-bottom'd  
 And

And pinchers as sharp as a *thorn*,  
With *pillage* has swollen so big,  
His *old-age* has pity forsworn.  
Will *Wright* says he keeps now

a *Miss*,  
That is both *capricious* and nice ;  
Defend us, kind Heaven ! from this,  
And all such detestable vice.

10. The happy Cottager. By Mr. JOHN SMITH, of Alton Park.

How happy is the peasant's lot,  
Who dwells in his neat *bumble* cot;  
Whose mind is not by cares op-  
press'd ; [left ;

Whose peace contentions ne'er mo-  
But, with kind endearing wife,  
Glides smoothly down the *stream* of  
life. [night,

When Sol dispels the shades of  
And gilds the eastern hills with light,  
He quits couch, then blithe and gay  
He labours till the close of day.

Till *old-age* comes, his flock he'll  
feed, [reed.

And tunc beneath the *thorn*, his  
Or with assiduous care and toil,  
Will cultivate the sterile soil ;  
And, when with tiresomeness op-  
press'd,

No *knocker* hinders him of rest.  
Nature's soft nurse, his strength  
*renews*,

And he, alert, his toil pursues.  
His *mate* is loving, kind, and true,  
From *caprices* free and envy too !  
No need he ever has to chide her,  
Ever industrious as the *spider* ;  
From morn to night she's ever  
spinning,

To furnish *blankets*, beds and linen.  
His little children, harmless  
*weights* !

Yield him a *million* soft delights ;  
They climb his knee, the kifs to  
share, [chair ;

Or gambol round *their* mother's  
He's to his friends and neighbours  
kind ;

Never to *pillage* is inclin'd,  
But in fair virtue takes delight,  
And loves to do, that which is  
*right* ; [yes,

That after death has seal'd his  
He may have *bliss* beyond the skies.

11. An Elegy on a favourite *Cat*, supposed to be poisoned.

By Mr. T. WICKER, of Exeter.

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Let *Wright* arise, on wing sublime,  
And charm the world with pleasing  
rhyme,

A favorite *Cat* be mine ;  
Like *Whittington*, in garret high,  
I'll for poor pretty tabby sigh,  
And at his loss repine.

He was of that all-gentle nature,  
Who'd *rap*, or hurt the pretty crea-  
So neat from top to toe, [ture !  
His claw for *pillage* ne'er was  
spread, [maid,

Yet would he shield his favourite  
From *spiders* and each foe.

Free from *caprice*, the curious came,  
New in his beauty spread like flame,  
Encomiums sound no end.

But ah ! his *blank*, O tuneful *Gray*,  
Too true was thy proverbial lay,  
" A favourite has no friend,"

No leopard on drear *Lybia*'s coast,

A skin so spotted e'er could boast ;  
No *mole* so sleek and neat.

New milk each morn he'd early  
chuse, [use,  
Nor butter'd toast would he re-  
But readily would eat.

He'd lick *Miss* *Jenny*'s milky  
*thumb*, [ding home,  
And knew who brought the pud-  
He purr'd at burden'd spin ;

The muffin white, the hot-cross-  
bun, [lunn,

The manchet, *wig*, and tally  
His palate well could hit.

Lo ! now my lovely *Delia*'s *chair*,  
Is, like a *mat*, all wane and drear  
Here *bappy* would he purr ;

No tabby *bar* he's left behind,  
To comfort *Jenny*'s frantic mind,  
Or stop the sad demur.

His mistress fair took care to hide

His

His bones by the kind *Severn's*  
fide,  
Beneath yon well-known vale,  
Where *Knocker Hobb* his windmill  
plies,  
Left wants upon *Diarans* rise,  
Fine flour may them regale.

Let ever-greens, not *thorns*, then  
spread,  
To form a reverential shade,  
Over his silent tomb,  
That here the night returning kind,  
May fighting cast his eye behind,  
And pity *Tabby's* doom.

12. On Modern Fashion. By Mr. JOSEPH HINDSON, of Lincoln.  
Customs and times so alter'd are,  
And days and nights so chang'd  
appear,  
Ye gentry of these isles;  
Morning is noon, and noons are  
nights, [lights,  
The evening's lost in borrow'd  
So odd are fashions wiles.  
Poets of old, with flowing line,  
Could *spiders*, *thumbs*, *moles*, *mills*  
define  
In smooth harmonious verse,  
The morn and eve before our eyes,  
They would pourtray in mystic  
guise,  
In numbers right and terse.  
What! has the morning chang'd  
her dress?  
Nor rising blushes more cares?  
Has the lark ceas'd his song?  
Where do we find the pearly dew,  
That trembles beauteous to the  
view,  
The *Severn's* banks along?  
Still with the blazing southern sun,  
The tyro's half-day's task is done,  
And homeward he is sped:  
The news-man in his matted chair,  
To eat his dinner see prepare

Ere rich folks leave their bed.  
What! has the evening chang'd her  
hue, [view,  
The black gauze veil, or wig we  
Or where the light brown habit?  
The gentry see not twilight's ray,  
They're dining at this time of day,  
And mumping like a rabbit.  
Is it the vogue that thickest gloom,  
And midnight darkness takes the  
room,  
Of sober pensive eve?  
Dark noxious vapours then annoy,  
Fit for of *mole* the blinking eye,  
All like a *blank* to leave.  
Ye heirs to happy fortune say,  
Why thus delight ye night and  
day,  
In this strange medley mels?  
And him forget who has supply'd  
Our every wish, nor aught denied  
That can our wrongs redress.  
The lark has not forgot his hours,  
The rising sun still shews the  
flowers,  
All various, all in tune.  
Why wish ye to invert the year,  
Like winter, summer make appear,  
And snow and ice in June?

13. On Regraters. By Mr. WM. TATE, of Stranton.  
Pernicious *spiders* thumb their  
wealth,  
And grovel, like the *mole*, in filth,  
Nor for the *news* they care;  
From *mills* and machinations they,  
Like the hoarse *Severn*, force their  
way,  
From mart to easy chair.  
Their hearts, like brazen *knockers*  
hard,  
To *masin* alms pay no regard,

As *blanks* the poor they tease;  
They'll send a bailiff, baneful pest  
To *heirs*, to *happiness*, to rest.  
The poor man's wig to seize.  
The *born* of plenty they possess,  
Yet *pillage* old-age, ne'ertheless,  
As *Wright* can fitly sing:  
To caprice, who was ne'er inclin'd,  
But such vile knaves as here you  
find,  
Should in a halter swing.

14. Summer Evening. By Mr. J. SAVAGE, of Green's-Norton.

With toils of business tir'd,  
As gentle eve grew red,  
I from the town retir'd,  
By Contemplation led.  
The setting sun's bright glory,  
Adorn'd the glowing west,  
While bending stalks before me  
With *spider* threads were drest:  
The bees were homeward hieing,  
That *bum* by Weddon's side,  
From flower to flower flying,  
The fertile valley's pride.  
No scorching sun molested,  
Wish sultry heat of noon;  
Day's ardent strength was wasted,  
To other climates flown.  
Now charming Philomela  
Receiv's her plaintive strains,  
While to the *mill* or villa,  
Retire the labouring swains.  
Soft o'er the orient mountains,  
Rose Night's illustrious queen,  
While *rivers*, brooks, and fountains,  
Reflect her shining mien.  
Each air more soft now growing,  
Till not a *rap* or breeze

Was thro' the branches flowing,  
Of the embow'ring trees.  
Now orbs on orbs were rising,  
Thro' heaven's vast expanse;  
How matchless! how surprizing!  
No work this of *blank* chance.  
What fragrant sweets exhaling  
From shrubs that twine around,  
As *beirs* to yonder paling,  
And beautify the ground.  
The *happy* birds elated  
On *twig* or spreading *thorn*,  
Like watchful centries waited  
To hail the early morn.  
No *pillagers* detested,  
Disturb'd the sweet serene,  
By whom *old-age* molested,  
And learned *Wright* have been.  
The cloud-capp'd hills incensed,  
I thought, with echo's sound;  
While new-mown hay dispensed  
Ambrosial sweets around,  
The blessings of Creation,  
Of Providence and Grace,  
Let every Christian nation  
With thankfulness embrace.

15. To the Editor. By Mr. R. DUTTON, of King'sley.

Accept, dear Sir, for the first time,  
An humble poet's name,  
Who wishes to appear in rhyme  
Within your book of fame.  
*Spider* and *thumb*, sure two must be,  
The third appears a *mole*,  
*Mill* and the *Seuern* next we see,  
Now shall I name the whole?  
As in my *chair* the *scaps* I read,  
Enigmas still my care,

Four others popt into my head,  
*Knocker*, *mat*, *blank* and *beir*.  
And now to bring the whole about,  
One *happy* effort more;  
But ere that I could make them out,  
My *wig* was tail before.  
Yet not deterr'd, I still engage  
The puzzling *thorny* way;  
*Wright*, *caprice*, *pillage*, nor *old-age*,  
Shall lead me thence astray.

16. *Rebuses* answered by WILLO HOSTMAN, of Newcastle.

Excuse me, if it be a crime,  
Thus to intrude upon your time,  
And plague you with my rough-spun  
rhyme,  
While other bards,  
Who sweeter sing, and more sub-  
lime,  
Claim your regards.  
Sir, if you think this may appear  
With decency, in Di, next year,  
E'en place it somewhere in the rear,

Most out of sight, [sheer  
That it may 'scape the scoff and  
Of Master *Wright*,  
Whose lines on any subject please;  
Who wasting *pillage* treats with ease,  
And from its native roughness frees  
The very *thorn*;  
May *caprice* never on him seize,  
Nor prideful scorn!  
But should it have the luckless lot,  
To be mislaid, or be forgot,

Or thought unworthy of a spot  
In Dia's page,  
I'll still rhyme on, and value not  
The critics rage. [end it.  
Then, without saying more, I'll

And to your friendly care com-  
By the p. s. man. [mend it,  
And may the best success attend it,  
Says *Wiles Heftman*.

17. The *Prime* Ænigma and Rebuses answered by Mr. JOHN WELLS.

In *old-age* Gripus view'd his pelf,  
With pleasure told it o'er,  
No comfort else allow'd himself,  
Tho' wealthy he was poor.  
Bent was his back, his beard was

Long mark'd him for her own;  
With aches and pains his years  
roll'd round;  
Health was to him unknown.  
At length Death came in dread

grey,  
He could scarce crawl about;  
His greasy wig, the neighbours say,  
For years was ne'er comb'd out.  
A rusty hat, more red than black,  
He wore upon his head;  
A ragged coat ne'er off his back;  
The ground his nightly bed.  
His mean abode *caprice* had found,

Whose mien did him affright,  
He summon'd, forc'd was to obey,  
Tho' in the dead of night.  
The wealth he'd pillag'd from the  
poor  
Lay bury'd underneath  
The *thorn* that grew beside his door,  
When he resign'd his breath.

18. Ecclesiastes XII. Chap. By PLOUGHBOY, Belmond, near  
Knareborough.

Young man, remember God with  
fear,  
Ere *thorny* ways and age appear;  
Or light grow dim, or keepers bow;  
While strength and health with  
vigour flow;  
Or ere the *pillag'd* grinders fail,  
Or lips refuse th' accustom'd tale;  
Or *old-age* wake in early morn,  
Or Mute's daughters low in scorn,  
When the right hand a staff and stay,

A fear *capricious* fill the way.  
Or almond-tree with blossoms spread,  
Be cover'd from another's head.  
Or passions cease, which pleas'd  
when young,  
Or strength depart from nerves un-  
strung,  
Or loosed cord, or broken bowl,  
Or stopping wheel, or parting soul,  
Or thou be wrap'd in winding sheet,  
And mourners go about the street.

New ÆNIGMAS to be answered next YEAR.

1. ÆNIGMA 670. By Mr. J. HINDSON, of Lincoln.

I am ever advancing with speed in the rear,  
And tho' always I'm coming, yet never reach here;  
To search for me, gentles, I pray you desist,  
No where to be found I'm, but in the fool's list.

2. ÆNIGMA 671. By Mr. GEO. BRENTNALL.

Behold, with wonder and surprize,  
Ten thousand truths, ten thousand  
lies;  
In Flanders, France, and Spain,  
Beasts, birds, and fishes may be seen;  
The dreary waste, the flow'ry green,  
And the vast raging main.  
But truth is often in disguise;  
All what is set before your eyes,

May be deceitful show;  
For truth of this, ask May's fair  
queen; [seen,  
The face she has with pleasure  
The queen of May must know.  
'Tis something, nothing, here or  
there, [where,  
This moment seen, the next no  
Yet ev'ry thing can see;

In

In colour may be black or blue;  
Or dy'd with tints of every hue;  
Or form'd in any shape.  
'Tis every old, I'd have you know,  
Was seen a thousand years ago

A d full of rich adm'r'd.  
If you in Holy Scripture look,  
You'll find it in the lastest book,  
Wrote by a pen inspir'd.

3. *ÆNIGMA 672.* By Mr. RA. DUTTON, of Kingsley.

As something strange, let now appear,  
Pleasing harms to please the ear,  
The pride of man and beast;  
Of plenty, I the emblem true;  
The fair, by birth right claim me  
The wise admire me least. 'Tis so,  
I'm sometimes rais'd to high re-  
nown,  
Sweeping half the British crown,  
Kings worship at my shrine.  
On Kitty's bauteous infant face,  
I'm often known to add a grace,  
My pow'r seems near'd wine.  
Burst of me a further view,  
I'll shew you things both strange and  
true;

I am the rich man's pride.  
For a gift, the courtier sends,  
With pleasure, to his special friends,  
Yet strives the gift to hide;  
Not oft can the receiver know,  
Whether he has this gift or no,  
So nice it is conceal'd;  
And lords and dames of high degree  
Are born all to inherit me,  
You'll own when I'm reveal'd.  
On airy wings I take my flight,  
And pass unseen both day and night,  
Conceal'd by various tricks;  
Mark the sly giver, he but knows me,  
The hypocrite when he bestows me,  
Knows how and where I fix.

4. *ÆNIGMA 673.* By Mr. JOHN TOPHAM, of Hutton, Redale.

Dear Gentlemen, pray,  
Attend to the lay  
Of one that is both deaf and dumb;  
A head I have got,  
But feet I have not,  
And yet can I both go and come  
If more you would know,  
My ribs I can shew,  
For naked they often are seen;  
Tho' not always so,  
Yet sometimes for shew,  
I wear a fine lively of green.

Should you e'er ride abroad,  
I'm oft found on the road,  
Where my master will on me attend;  
But what is more strange,  
To and fro I can range, friend.  
And the wants of that master be-  
Tho' I innocent be,  
Am I hang'd on a tree,  
As history bears on record:  
To heaven would you go,  
In fate it is so,  
To stop you I'll try, on my word.

5. *ÆNIGMA 674.* By Mr. J. SAVAGE, near Towcester.

If *Osfer's* sweet relation  
Be true, in Adam's days,  
You'll find that sore vexation  
I caus'd, for joy and praise.  
I made a brother's fury,  
Against his brother rise;  
How awful is the story!  
He smites him and he dies.  
Abraham interceded  
For Sodom to be spar'd,  
Yet he in vain had pleaded,  
Nor his request been heard.  
For when the light prevailing  
O'er night, by me 'twas seen,

Alas! how unavailing  
His earnest suit had been.  
Nor to those pristine ages,  
Am I confin'd alone,  
I and my parent's aid is  
Still to this day well known.  
Soon as the rasy morning  
Unfolds the gates of day,  
In gold the hills adorning,  
I upward bend my way.  
But if I should be flying,  
From the straight narrow road,  
There's frowning, weeping, sighing,  
In many a man's abode.

Some-



Sometimes when elevated,  
 I sink to earth again,  
 I then am blam'd and hated,  
 By each fair nymph and swain.  
 Sometimes in rural places,  
 O'er many a-piled heap  
 I'm seen, while round me grazes  
 The ox, or harmless sheep:

Where lofty banners waving,  
 Stretch o'er the sanguine plain,  
 I rove, all danger braving.  
 Amid the warlike train.  
 While thund'ring cannons rattle,  
 Hurling destruction round,  
 Throughout the field of battle,  
 A foe to breath I'm found.

6. ÆNIGMA 675. By Mr. WM. TATE, of Stranton.

Two brothers here, of pigmy size,  
 Present themselves before your eyes;  
 But what perhaps may you surprise,  
 We are of different hue;  
 Tho' our dimensions be the same,  
 In shape, proportion, and in name,  
 A distinct livery we claim,  
 One orange and one blue.  
 Now for our worth, it being such,  
 That we can, with the slightest  
 touch,  
 Allay tormenting pain so much  
 Immediate ease ensues;

Yet medicine we ne'er apply,  
 And pill and potion we deny,  
 Nor yet on plastic forms rely,  
 Our patients to abuse.  
 Whether on brute or human frame,  
 Our efficacy is the same;  
 In all disorders you can name  
 We often give relief.  
 Impregnate with each healing art,  
 That Esculapius could impart,  
 Our claims undoubted to desert,  
 Now tell our names—be brief.

7. ÆNIGMA 676. By Mr. JOHN JACKSON, of Cawood-Hagg, near Selby.

Three letters you find will my name just compose,  
 A few hints I'll give you the same to disclose.  
 Direct I'm a game which some gamblers care for,  
 And sometimes mean actions of painful distress.  
 Reverse me, but then let it not you surprise,  
 Should a useful quadruped appear to your eyes,  
 Who the needy has cloath'd, and caus'd to be fed,  
 And warmth given you, gents, asleep when in bed,  
 Yet for all the good deeds he has done, 'tis his lot,  
 (So fate has ordain'd it) to come to the pot.

8. ÆNIGMA 677. By RUSTICUS, of Wrangle.

In vain I'm striving to conceal  
 What you, dear gents, will soon  
 reveal;  
 But, spite of that, I shall proceed,  
 Cautious the truth I don't exceed.  
 On the confines of earth, sea, air,  
 Upon this ball a place is there;  
 Here the remotest things are seen,  
 Or talk'd of that have never been;  
 Here I in tow'r aloft abide,  
 With numerous passages employ'd;  
 Scarce ever empty, night or day,  
 Nor hindrances obstruct the way.  
 My temple walls within resound,  
 Before unheard-of things abound;

About my courts the vulgar go,  
 Wild rumours wonder to and fro;  
 And truth with lies so mingled are,  
 Even non-entities appear;  
 Tales carried, which in telling grow,  
 It matters not of what, or who.  
 Without distinction, roam I o'er,  
 Nor favour shew to rich or poor.  
 Here errors credulous appear,  
 And groundless transports hope and  
 fear. [spy,  
 You'll call me base, but there may  
 Others, who are much worse than I.  
 The world will find the numbers  
 small,

That

# THE GENTLEMAN'S DIARY, N<sup>o</sup> 62. 27

That lov'd are and carels'd by all. | You oft my name can't miss to  
Of me, as 'tis of others said, | hear,  
Some I extol, others degrade. | So it proclaim another year.

## 9. ÆNIGMA 678. By Mr. W. CLARK, Cam's-Hall.

A stranger to your noted page,  
Nor begs you'll not be in a rage,  
Should he intrude himself among  
The learned enigmatic throng.  
His used manners are 'tis known,  
Which many different countries  
own,  
Much less indeed than this is seen,  
In making things pass smooth and  
clean.  
For application, join'd with care,  
Complete their business to a hair;  
Where glitt'ring arms aloft dis-  
play'd,  
With burnish'd lustre by his aid.  
He ready at his post and call,  
Attends the cobbler at his stall,  
Whose wife, perhaps, could more  
relate,  
But I forbear to aggravate; [borne,  
For did you know the rubs he's  
You'd almost think his hopes forlorn.  
Yet, friend to all the human race,  
Tho' oft confin'd to local space,  
Securing various objects round,  
Or meeting their circumference  
bound. [length,  
When fashion'd, of convenient  
And much depending on his strength.  
Now, if one letter off be taken,  
You'll save perhaps your cheese  
and bacon.  
By the rest, if well applied,  
This some curious folks have tried.  
Another off, it then will make,  
What very few would wish to take;  
Tho' some deserve, and ought to get,  
They like not to acknowledge yet.

## 10. ÆNIGMA 679. By Mr. BENJ. KEMP, of Farnsfield.

I'm a wonderful creature as fancy can paint,  
In contrast exceeded by none;  
A monarch, a beggar, a sinner, a saint,  
Yet oft to myself am unknown.  
As strong as Goliath or Sampson of old,  
Yet weak and enfeebl'd I halt;  
Am mean and am valiant, effeminate, bold,  
Am harmless, yet ever in fault.  
A poet, philosopher, blockhead, and knave,  
Of me noble themes have been sung;  
I'm honest and upright, am constant and brave,  
Yet a villain as great as e'er hung.  
My name thro' the world is esteem'd and carels'd,  
The title all nations revere;  
But those who would model the epithet best  
Must in virtue and truth persevere.

## 11. ÆNIGMA 780. By INDIGENA, of Whitkirk, near Leeds.

Within a cottage I reside, [tent,  
With balmy peace and sweet con-  
And yet to wretchedness allied,  
You find me in a dungeon pent.  
I am to few a welcome guest;  
Men at my haggard visage start;  
Yet to the spirit where I rest,  
I more than human bliss impart:  
For I the parent am of peace,  
And hush the horrid din of wars;  
The hostile nations I appease,  
And reconcile contending jars.  
Lovers and friends I disunite,  
Or break the sacred bonds of love:  
Impell'd by me, the bounds of  
right  
Some overleap, and some remove.  
When I undertake the proud and gay,  
My

My strokes with double weight they feel, [away,	No sparkling glass, no flowing bowl, [peace.
Their hopes and joys I chase Yet me they gladly would conceal.	Are seen, and riot's hush'd to Throughout the habitable globe,
Where luxury and profusion reign,	My counterpart and I are seen. Or gaily deck'd in silken robe,
And pleasure bears a potent sway, I enter. They with all their train,	Or homely russet, on the green. : To many I'm a real good ;
At me affrighted fly away. No beauties now to fire the soul,	I check their folly's mad career, Their views direct, and shew the road
No viands rich to feed disease,	To joys substantial and sincere.

## 12. ÆNIGMA 781. By Mr. W. SPENCER, of Sappcote.

Before the glowing orbs were brought to sight, [light.	When I approach the mansions of the great, [state,
I being had within the realms of For the great first eternal mighty name, [v'nly frame ;	The splendid domes of royalty and 'Tis with unwilling steps and cau- tious fear, there.
Advis'd with me to form the hea- As I approv'd, he bid the fabric rise, [skies.	For I can seldom gain admittance Sometimes, indeed, to court I wing my way, [day ;
And spread the azure mantle of the But here the muse must pause, such noble themes, [dreams ;	But am repell'd by minions of the And by officious care and zeal mis- plac'd, [grac'd.
To vulgar minds, are on y idle Or pleasing flights of fancy at the best, [prefs'd.	I am despis'd, insulted, and dis- Not always so. The good man is my friend, [cause defend.
By madmen form'd, by idiots ex- Attend me now, from my exalted throne, [alone.	My champion too, and will my Once, in a competition of the wise, For fame, it said is, that I won the prize. [stood,
To paradise, when Adam dwelt In those most sacred groves I did appear, [there.	A prize myself, if rightly under- stood, [and good.
And, but for Adam, I had still been Alas, he fell ! and I, like Lazar, poor, [of door.	And such esteem'd am, by the just Immortal Newton knew my worth full well, [to excel.
Rejected, scorn'd, if not turn'd out I wander now, as if by instinct led, And scarcely find a place to lay my head.	'Twas I that taught him thousands But now adieu. From earth to heav'n I soar, [be no more. And shall exist when time shall be

## 13. ÆNIGMA 782. By INDIGENA, of Whitkirk, near Leeds.

Two brethren or sisters, say whether you please,  
Were form'd for the good of mankind ;  
Their strength we renew, and their vigor increase,  
And knowledge convey to the mind.  
To us are indebted the rich and the poor,  
Assistance we never deny ;  
Their powers expand again we restore,  
And native defects we supply.  
To science and commerce, whose value is seen,  
The labours of thousands we give,

And thousands without us distress'd would have been,  
 Who now by their labours can live.  
 The grave solemn judge, and the chancellor too,  
 Conversant in learning and laws,  
 Accept of our service, so faithful and true,  
 To settle a dubious cause.  
 The pious divine, now a veteran grown,  
 The guide of old age and of youth,  
 Our use in the pulpit to you he has shewn,  
 Display'd in the volume of truth.  
 The valued physician, whose skill's the result  
 Of time, and experience true;  
 He seldom will Celsus or Galen consult,  
 But as he will have in his view.  
 The widows, old maids, and old bachelors fly  
 In company shun us, and at us look shy,  
 Lest we their defects should betray;  
 Yet Gripsus the miser takes us to his shore,  
 We shew him the idols he loves to adore,  
 As he for a moment looks gay.

14. *ÆNIGMA* 783. By Mr. J. WYRILL, of Wiltow.

Descend, celestial Muse, and with thee bring  
 That heaven-born virtue, from whence blessings spring;  
 Which, ere the sun shot his meridian blaze,  
 Tun'd the rapt seraph's ardent songs of praise!  
 The poor's peculiar grace, whose worth is rais'd,  
 By its possession . . . ever to be prais'd.  
 If in the rich and great it chance to shine,  
 Their moral virtues almost beam divine:  
 But few, alas! of wealth and power possess'd,  
 Who duly entertain this heavenly guest;  
 For sordid gain, or some vile party end,  
 Will its base influence o'er their minds extend.  
 Therefore in courts this virtue's rarely seen,  
 Tho' lov'd and honour'd both by king and queen.  
 Courtiers and placemen ne'er to this attend;  
 Who stops their way to pow'r can't be a friend.  
 For if a thousand favours he have done,  
 This cause alone would cancel every one.  
 Tho' oft 'tis thus—yet there are hearts sincere,  
 In ev'ry station, who its worth revere;  
 Whose souls, congenial with the saints above,  
 Place their delight in harmony and love;  
 For every favour shewn would twenty pay,  
 Did no external causes bar the way.  
 These blessed souls, when time its course has run,  
 And light ineffable eclips'd the sun,  
 Shall rapt'rously hymn forth their joyful strains,  
 To him, who *all in all* for ever reigns.  
 Still prompted by my theme; for it and love  
 Make up the bliss of all the hosts above.

## 15. ÆNIGMA 734. By ALPHONSO, of Mansfield.

Ye sons of science, to whose genius, I  
Owe my existence and each property,  
Whose deep researches, from an  
early age, [engage,  
With philosophic skill, my pow'rs  
Down to the present, yet an ample  
field, [yield;  
That new discov'ries will to study  
From Theophrastus wise, the first  
known cause, [laws,  
Of my great birth, obedient to whose  
I've since attain'd my present grow-  
ing state,  
Rewarding genius of superior rate.  
My frame is light, mechanically  
made, [lead;  
Of various forms, as whim or fancy  
My maker's choice, increase of  
pow'r to gain, [merous train;  
And plan each member in my nu-  
Which when combin'd, physicians  
seek my aid  
To health restore, and raise the  
drooping head;  
In this kind office, oft I have pre-  
vail'd, [fail'd.  
When medicines us'd hitherto have  
At my command the busy dance  
goes round, [cannons found;  
Now ring the bells, and thund'ring  
But should my pow'rs attain their  
utmost force, [coerce,  
And inadvertence draw from their  
By sad experience prov'd, my owners  
know, [tal blow;  
I quick as light'ning deal the mor-  
But, rul'd by judgment, and to care  
confin'd,  
I entertain, instruct, improve the  
mind.

## 16. ÆNIGMA 785. By MR. A. GLENDENNING.

I come to cast a blameless spell,  
To gladden yonder sylvan cell;  
Over the dames of Britain's isle,  
I've wide diffus'd the pleasing smile.  
Of old, on fam'd Arcadia's plains,  
Dwelt Damon, paramount of swains;  
Each anxious nymph incessant strove  
To gain this blithe shepherd's love;  
By female arts in vain were tried,  
Damon all female arts defied.  
Designs matur'd with studious care,  
Avail'd no more than vapid air;  
Till passing meek Pastora's bower,  
Which boasted but my pleasing  
power, [fess'd,  
My pleasing charms his heart con-  
And soon his vows inclin'd her  
breast;  
And so from that auspicious day,  
Commenc'd my wide extended way.  
Men ever keep me now in view;  
The fair more still strive for me too.  
'Tis said, the song'ers seek the grove  
To sacrifice to me and love.  
And those who most delight the ear  
My truest partizans appear.  
If I'm essential then to those,  
Whose bliss is sensual repose,  
I'm tenfold so to reasoning man,  
Whose mind the universe can scan;  
For, with a sweet and pleasing air,  
I scatter hov'ring clouds of care;  
A boon benign, by Heaven design'd,  
To bless and comfort human kind.  
The law divine had a decree  
Of fix'd devotion due to me:  
And laws divine, no doubt, include  
Our future peace, and present good.  
Philanthropic Count Rumford says,  
Erase me,—virtue you erase.  
And in each great and noble plan,  
Soothing the woes of hapless man,  
Who to his fav'rite precept true,  
Has constantly kept me in view.  
All ye, who make the Muse your  
care,  
I with the Muse your bosoms share;  
Enliven fancy's airy dreams,  
Attune your soul to noble themes.  
Not even tears of filial woe,  
With milder emanation flow.  
Kind Gents, now worth unsung  
display,  
And smile on my incondite lay,  
Remember too, and bless the fair,  
Who make me their peculiar care.

PRIZE ENIGMA. By Mr. DAVID ROBERTS, of St. Columb.

Classics adieu, of Greek and Latin lore,  
 Abstruse equations puzzle me no more.  
 Blessings so great I now attempt to sing,  
 The fav'rite of truth to view I'd bring;  
 See warriors, who hear the trumpets sound,  
 And spread dire consternation all around;  
 How numerous and terrible are they,  
 When from their holds they point to shew the way.  
 Beware fond youths, and ye unthinking fair,  
 How on light errands hither ye repair;  
 Lo shady oaks and elms and firs are seen,  
 And laurel, box, and bays, display their green!  
 While from above sweet warblings strike the ear,  
 And odorous flow'rs, richest on earth, appear.  
 What sweet perfume is wafted by the breeze!  
 See what rich foliage adorns the trees!  
 See wines produced here, a copious store,  
 And offer'd freely both to rich and poor!

Tho' some say lions, birds, and beasts of prey,  
 And savage men, more dangerous than they,  
 Are found. Tho' doves their bills in union join,  
 Cherubs and seraphs! melody divine.

On Shinar's plain, a wond'rous structure rose,  
 Which all the world united to compose;  
 Compact and strong, but ah! alas! it fell,  
 And where it stood, what mortal now can tell?

Not so the famous place I now proclaim,  
 Which stood ere Babel got itself a name.  
 And still shall stand, and brave the jaws of time,  
 Flourish and spread its form from clime to clime.  
 In deserts, dens, and caverns underground,  
 Cities most famous too its seats are found.  
 And there shall stand till earth shall melt away:  
 It then shall mingle with the blaze of day,  
 That day, which ne'er shall end, or know decrease,  
 Ever illumin'd by the Prince of Peace.  
 Thus it shall rest secure, without controul,  
 While ever everlasting ages roll.

NEW REBUSES, CHARADES, &c.

1. Mr. Wm. Wilson, of Hoby.

A songster will my first be found,	My curious whole full oft destroys,
Building my next above the ground;	The wanton girl, or the rude boys.

2. By Mr. J. Cairns, of Old Bewick.

Part of your face my whole will	Transpose my whole, a lineal one
bring to view, [true,	then [plain.
My head cut off a liquid measure's	In letters four you read will very

3. By Mr. Wm. Wilson.

Two languages from my most co-	Its use may be this, that hereby is
mical name [the same.	display'd [read.
In self contradiction, yet always	The substance of this and ev'ry cha-

4. By Mr. Joseph Robertson, of Old Bewick.

Tho' letters five a river's name | But leave out one, and there will  
compose [with late,] then be giver, [seven.  
You must make six to properly, | What justly constitutes the number

5. By Mr. D. T. Sheridan.

A famous Isle, which gave Apollo birth;  
A swain whom Luna v. fixed on earth;  
A lisp'd spring, which tuneful birds inspires;  
A vally sacred to the heav'nly choirs;  
A nymph who for her father's exit mourn'd,  
Disolv'd in tears, and to a lake was turn'd.  
Th' initials name, if properly combin'd,  
The wretch who robb'd me of my peace of mind.

6. By Ploughboy.

My first you'll find a part of self, | And when my last attacks my first,  
My last you feel with pain, | You of my whole complain.

7. By Mr. G. H. Pitt.

If you this rebus would undertake | A word, that hails the morning light.  
Bisect a circle to the middle; | Then you will make a bard appear,  
And to it then you must unite | That in the Diary writes this year.

8. By M. W. Clark, Farnham.

To a fam'd monosyllable that cheers | A fair that has to many been unkind;  
My drousy senses, and salutes my | Yet are her favours courted and ad-  
ears, | mired, [are fir'd.  
Prefix a preposition, you will find | And many vot'ries by her charms

9. By Mr. G. Simpkin, Sergeant.

My first belongs the hoary sage, | Of Kings, so for Naaman look.  
Whose head is silver'd o'er with age; | It nam'd is little, but look round,  
My second's read of in the book | A compound strange, tho' human's,  
found.

10. By Mr. John Topham, of Hunton.

My first in winter oft appears, | In spring my whole its head up-  
My next comes in the rain, | And is of Flora's train. [rears,

### QUESTIONS critical and philosophical.

CCXX. By Eumenes.

Is the word *Firmament* a proper rendering of the Hebrew in the first chapter of the book of Genesis? If not, what is?

CCXXI. By Mr. Robinson, of Bowes.

Whence sprung the custom, and how far back can it be traced, of  
craving a blessing on another's sneezing?

CCXXII. By Mr. John Cairns, of Old Bewick.

Why is a pail of water lighter when a fish is put into it, than when  
out?

It is said, that this was proposed by King Charles the Second to the  
then Royal Society; when somebody proposed, in the first place, to  
try the truth of it by experiment. It is, however, demonstrable. Quere,  
how?

CCXXIII. By Mr. Thomas Coulson, of Rookhope.

Is it true that the substance called *salp* is the dried flesh of the viper. If so, how comes it to be wholesome food, when the bite of the tooth is such deadly poison?

CCXXIV. By Mr. John Cairns.

How came the people, who make men's cloaths, to be called *taylors*?

CCXXV. By Mr. Jobn Sawaga.

What is the meaning of Lamech, who addresses his wives in such a singular manner? Gen. 4. 23. 24.

CCXXVI. By Mr. John Jackson, of Cawood-Hagg.

A young Lady, some time since, asked the question, what Love is? Required a modest and proper answer.

CCXXVII. By *Risicus*, of Wrangle.

Where the dairies are small, they are in winter sometimes forced to keep their cream great part of a fortnight before they churn it; and then they have been known to churn for 12, 14, and even 24 hours successively; and make use of every means they can think of, and sometimes they cannot get butter at all. What reason can be assigned for this? And is there any, and what known remedy for this?

CCXXVIII. By A Yorkshire Ploughboy.

It is said by many people, that the worms in the earth are afraid of thunder. Is there any truth in the assertion?

CCXXIX. By *Neosforensis*.

What are the beneficial effects of Hail: considered in its unthawed state?

CCXXX. By Mr. Ra. Dutton, of Kingsley.

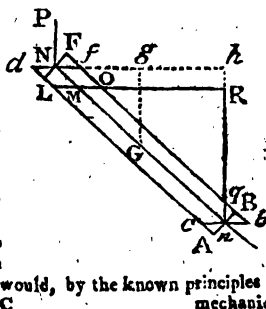
Were there any books or writings in the antediluvian world? If not, what is meant by the book of Enoch, quoted by St. Jude?

ANSWERS to the QUESTIONS proposed last year.

I. QUEST. 808, answered by EUMENES, the proposer.

That a cylinder may be supported in any oblique position when immersed in water, will be abundantly evident to any one who will take the trouble of trying the experiment. But to make the matter as perspicuous as possible, let a solid *dfbc*, of the same weight, length, and diameter as the cylinder, but whose ends *dNf*, *cnb*, are ellipses whose axes = *LF* and *df* be so supported.

Then, if the water were away, to prevent the body from moving in the direction of the right line *NN*, would, by the known principles of





mechanics, require a weight  $\equiv W \cdot nR$  divided by  $nM$ , when  $W$  = the whole weight of the solid. And therefore the water must support the same weight in the same direction  $n$ , for otherwise there can be no equilibrium. But all the sections of the solid parallel to the horizon, immersed in the water  $cbLO$  are equal ellipses; wherefore, it is very plain that the water acting upon every one of them must destroy its own effect by acting in contrary directions, and consequently the whole effect that it has, must be produced by its action against the bottom of the solid  $cb$ . The water, therefore, that acts against the solid must be equal to the column  $LObc$ , which being equal in weight to the solid  $dfbc$ , must support the weight  $W \times nR$  divided by  $nM \equiv W \times nq$  divided by  $bq$  acting against the centre of gravity  $G$ , or proper place of the body, in the oblique direction  $nN$ ; to produce which effect must require the whole weight  $W$  acting in the vertical direction  $nR$ ; the whole force therefore acting along the vertical right line  $nR$ , must be  $\equiv W$  the whole weight of the column, whose base is the ellipsis  $cb$ , and height  $\equiv nR$ . And this will likewise evidently support the cylinder  $LFBA$ , whose weight is also  $\equiv W$ , and centre of gravity  $G$ . For the weight  $W$  must support  $W \times nR$ , divided by  $nM$ ; because by a short and evident computation it will appear, that if any two points, equidistant from the centre  $n$ , be taken on the plane of the circle  $AB$ , the pressure of the water against them perpendicular to the plane of the circle will be as their depths below the surface  $MOR$  of the water; and  $nR$  is a mean betwixt the two,  $n$  must be the seat of mean pressure, and the sum of them all acting perp. to the plane of the circle  $AB \equiv$  its area  $\times nR$ . But its area  $\times nM \equiv$  the whole cylinder's content, and its area  $\times nM \equiv$  the water's weight thereto. Hence, as this quantity:  $W ::$  area  $AB \times nR : W \times nR$  divided by  $nM \equiv$  the weight which acting at  $n$  in direction  $nM$  is equivalent to the whole pressure of the water perp. to the plane of the base  $AB$  of the cylinder, which being the weight so required to be supported, there must be an equilibrium at  $n$  in direction  $nG$ . If now an inverted syphon have water poured therein, it is well known that, without regard to quantity, the water will stand in each leg at the same horizontal level; and if the legs be straight, the pressure of the water in each must of necessity be inversely as their lengths. Hence then it follows, that  $Mn$  and  $nR$  may be considered as the legs of an inverted syphon, and, consequently,  $nR : nM ::$  the pressure perp. to the plane of the base  $AB \equiv W \times nR$  divided by  $nM : \text{the pressure in direction } nR, \text{ or perp. to the horizon} \equiv W$ . Therefore  $W$  must be the weight, which acting at the point  $n$  along the single vertical right line  $nR \equiv$  the whole effect which the pressure of the water has to raise the cylinder upwards. Q. E. D.

Hence it appears, that the effect of the water is exactly the same upon the cylinder, as it has on the equal solid  $dfbc$ .

Now, in opposition to this upward action  $W$ , a weight  $\equiv W \cdot nR$  divided by  $nM$  in  $nM$ , and consequently one  $\equiv W \cdot nR$  sq. divided by  $nM$  sq. in direction  $Rn$  acts against it, consequently  $W - W \cdot nR$  sq. divided by  $Mn$  sq.  $\equiv W \cdot MR$  sq. divided by  $Mn$  sq. is the effective force with which the cylinder is driven upwards along  $nR$ . And it would be so driven up, and raised to the top of the water, were it not for the re-action of the string  $PN$  at  $N$ . For it would move the cylinder about its spontaneous centre of rotation, and, consequently, move its centre of gravity  $G$ . but this the tension of the string will

prevent, and, because  $GN = Gn$ , will destroy half the effective force above, by stretching the string with the other half. Wherefore half  $W \cdot MR \text{ sq.}$  divided by  $Mn \text{ sq.}$  = the tension of the string. And as the same weight is supported at  $n$ , the sum of them must be such, that the oblique pressure along  $nM$  being  $= W \cdot nR \text{ sq.}$  divided by  $nM \text{ sq.}$  the whole weight supported  $= W \cdot \frac{MR \text{ sq.} + nR \text{ sq.}}{nM \text{ sq.}} = W$ , as it ought

to be.

*Corol.* Hence all that is done about the Excise-man's staff at p. 37 and 38, *Diary* 1790, is hereby confirmed, and the tension of the string required in *quest.* 753 is here found  $= \frac{1}{2} W \cdot MR \text{ sq.}$  divided by  $Mn \text{ sq.}$

$= W \cdot \frac{80}{169}$  in the case of the staff or its pressure upon the side of the vessel.

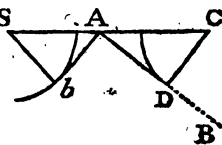
Answers were also sent by the Rev. Mr. Furness and Mr. Glendenning.

2. QUEST. 809, answered by Mr. A. GLENDENNING.

The cube of the sum of the sides is given, whence the sum of the sides is given, together with the perpendicular, and the ratio of the segments of the base thereby, to construct the triangle. Which is already done in the *Analysis Geometrica* of *Hugue D'Omerique*, Lib. III. *proposit.* 31. To which I therefore refer.

The same otherwise by Mr. JAMES CUNLIFFE.

Take the right line  $SC$  = the given sum of the sides, in which as is taught in *Determinate Section* find the point  $A$  such, that if two tangents  $Ab$  and  $AD$  be drawn to the two equal circles whose radius = the given perpendicular  $= Sb = CD$ , these tangents shall have the given ratio of the segments of the base. And from the centre  $C$  apply  $CB = AS$ , and  $ACB$  is the required triangle.



For the ratio of  $Ab$  sq. to  $AD$  sq.  $:: AS \text{ sq.} - Sb \text{ sq.} :: AC \text{ sq.} - SD \text{ sq.}$  by *constr.* and  $AC + CB = SC$  the given, hence the matter is manifest.

And nearly thus is the answer given by Mr. J. Wright, and but little differently by Messrs. Andrew, G. Brown, Campbell, Dixon, Smith, Walker, and Youle. And answers by algebra were given by Messrs. Black, Esqr Brown, Cowing, Furness, Rowe, and Wight.

3. QUEST. 810, answered by Mr. WM. WALKER, Horsforth, near Leeds.

Since the specific gravity of quicksilver to that of water is as 14 : 1, we have as  $1 : 14 :: 30 : 420$  inches, or 35 feet, the height to which water will rise above the level, when quicksilver stands at 30 inches. Put  $x$  = the height of the inner part of the bell, or the conoid of compressed air, and by conics  $10 : 25 :: x$  : the radius of the surface of the included water squared, and the solid content of the remaining part filled with compressed air being deducted, we obtain  $10x^2 : 1000 - 120x^2 :: 35$  given above  $: 120 + x$  = the depth of the surface of the water

water within the bell below that of the sea. Hence  $1200x^2 + 10x^3 = 35000 - 350x^2$ ,  $\therefore x^3 + 155x^2 = 3500$ ,  $x = 4.68172$ , and  $5.31828$  feet = the height required. And thus exactly it is answered by Messrs. Campbell, Cunliffe, and Wight; and nearly so by Messrs. Enfor Brown, G. Brown, Hewitt, Rowe, &c.

4. QUEST. 811, answered by LIMENUS, of Bruton, Somerset.

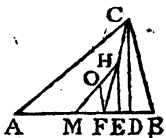
On AB half the given line describe a semi-circle to which apply AC = the given tangent; join BC, and produce it to D, making CD = half the difference between AB and BC; draw ED parallel and equal to AC, join AE, and from A and B with the respective distances AE, BD describe the circles GEF, FDH. Then, by constr.  $2DC = AB - BC$ , and therefore  $AB = BC + 2DC = BD + AE$ , and the angles EDB, AED are right, because ACB is a right angle. Wherefore the two circles touch one another, and ED is a tangent to each of them. And with little variation, this construction may be accommodated to circles, however posited with respect to one another.



And thus nearly are the answers sent by Messrs. Andrew, Black, G. Brown, Campbell, Cook, Cunliffe, Dixon, Furness, Glendenning, Harris, Truman, Rowe, Smith, Walker, Wright, and Youle.

5. QUEST. 812, answered by Mr. COLIN CAMPBELL, of Liverpool.

*Demonstr.* Let ACB be any plane triangle, and O the centre of the inscribed circle, draw CD and the radius OF perpend. to AB; join CF, which bisect in H, as also AB in M, and make HE parallel to CD. Then  $AC + CB : AB :: MD : \text{half the diff. of the sides } AC \text{ and } CB = MF$ , and *componendo*,  $AC + BC + AB : AB :: 2ME : MF$ , but  $AC + BC + AB : AB :: CD = 2HE : OF$ , therefore  $ME : HE :: MF : OF$ , consequently M, O, H, are in the same right line. Q. E. D.



Messrs. G. Brown, Cook, Cunliffe, Dixon, Furness, Glendenning, Hewitt, Lowry, Limenus, Rowe, Smith, Walker, Wright, and Youle, also gave like answers.

6. QUEST. 813, answered by Mr. R. J. BLACK, of Sleaford.

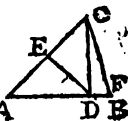
Put  $x$  = the less side,  $d$  = the difference of the sides,  $p$  = the semi-perimeter, and  $a$  = the area of the required triangle; then will  $x + d$  = the greater side, and  $2p - d - 2x$  = the base. And by a well-known theorem (having the three sides given to find the area,)  $(p - x) \cdot (p - d - x) \cdot (d + 2x - p) = a$ , reduced gives a cubic equation, whence  $x$  is known.

Mr. Glendenning says, I am sorry to find that I was last year deceived, in imagining this a plane problem, owing to an error which I committed in the analysis. And answers were also given by Messrs. G. Brown, Campbell, Cunliffe, Dixon, Furness, Hewitt, Lowry, Rowe, Wm. Walker, Wright, and Youle.

7. QUEST.

7. QUEST. 814, answered by Mr. WM. SMITH, of Liverpool.

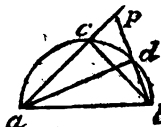
*Analysis.* Suppose ACB to be the triangle, C the given angle, CD the given perpend. and DE, DF those whose sum is given; then since the points D, E, C, F, are in a circle whose diameter CD is given, and because the angle ECF is given, its cord or subtense EF is given, therefore the angle AEDF is given, and in the triangle EDF are given the base, vertical angle=EDF and sum of the other two sides to construct the triangle. See the Append. to Simpson's Algebra. And hence the triangle ACB becomes known.



And thus is the answer given by Messrs. Black, Enfor, Brown, Campbell, Cook, Cunliffe, Glendenning, Lowry, Limenius, Truman, and Wrights. With others by Messrs. G. Brown, Dixon, Furnass, Johnson, Hewitt, Rowe, Walker, and Youle.

8. QUEST. 815, answered by the Rev. J. FURNASS, of Ponteland.

By Simpson's Geometry 3. 22. *ap. cp = bp. dp*, or *ab : bp :: dp : cp*, therefore the ratio of *ap : bp* is given : and conseq. the locus of the point *p* is a circle given in magnitude and position. And *ap* may be drawn as mentioned by Mr. Lowry at p. 35, Gentleman's Diary, 1801.



Answers are also given by Messrs. Andrew, Black, E. Brown, G. Brown, Campbell, Cook, Cowing, Cunliffe, Glendenning, Lowry, Rowe, Smith, Walker, White, Wright, and Youle.

9. QUEST. 816, answered by Mr. A. GLENDENNING.

*Constr.* Let  $r^2$  and  $s^2$  represent the constant and given rectangles *pb.bc* and *pd.de*, and  $m^2$  to  $n^2$  the given ratio. From the given points *b* and *d* (by prob. xiii. of Simpson's Geometry) draw *bp*, *dp* to meet in the circle at *p* and obtain the ratio of  $mr : ns$ ; and *p* is the required point.



*Demonstr.* Produce *pb*, *pd* to the circle in *c* and *e*. Then (by constr.)  $pb : pd :: mr : ns$  or  $pb^2 : pd^2 :: m^2 r^2 : n^2 s^2$ , or  $pb^2 . s^2 : pd^2 . r^2 :: m^2 : n^2$ , but  $pb^2 . s^2 = pb^2 . pd . de$  and  $pd^2 . r^2 = pd^2 . pb . bc$ , whence we have  $pb . de : pd . bc :: m^2 : n^2$ . *q. e. d.*

Ingenious answers to this are also given by Messrs. Black, E. Brown, G. Brown, Campbell, Cook, Cowing, Cunliffe, Lowry, Rowe, Truman, Smith, Walker, White, Wright and Youle.

10. QUEST. 817, answered by Mr. T. WHITE, of Dumfries.

*Geom. Analysis.* Let *ab* be the given points in the circle, *xw* the line given in position, *z* the required point in the circle. Drop the perps. *ad*, *bc* which are given, draw *bx* and *ay*, and parallel to *ay* draw *bw*; then, the angle  $xbw = azb$  a given one, the ratio *xdy cwp* of *yx* to *ba* is given, and by similar triangles *ady, bww* we have  $ad : bc :: ay : bw$  a given ratio, but the ratio of *ay : bx* is given, conseq. that of *xb : bw* is given, and being about a given angle, the triang. *xbw* is given species, and its perp. *bc* being given, is also given in magnitude, and conseq. the point *z* is given, &c.



The Composition. By Mr. J. COOK.

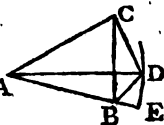
*Construction.* Let  $a, b$  be the given points in the given circle  $axc$ , and  $pd$  the line given in position. Make any where a triangle  $ABC$ , having its angle  $B$  = that contained in the segment  $axb$ , and the two including sides  $AB$  and  $BC$  in the given ratio, and its perp.  $ac$  let fall from  $b$  perp. to  $pc$ , then  $xbw$  being made in all respects = the triangle  $ABC$ ,  $bx$  will cut the circle in  $x$  the point required.

*Demonstr.* Through  $x$  draw  $ay$  and  $bw$  parallel thereto, then  $ay : bw :: ap : pb$ , hence the ratio of  $ay : bx$  joined to this, will make the ratio  $bw : bx$ , &c. as required.

Answers are also given by Messrs. *Andrew, E. Brown, G. Brown, Cowing, Cunliffe, Glendinning, Lowry, Row, Smith, Walker, Wright, and Youle.*

II. QUEST. 818, answered by Mr. ENSOR BROWN, Creton, Northamptonshire.

Suppose the thing done,  $ACB$  the required triangle, with radius  $AE$  the side of a square equal to the given magnitude describe the circle  $DE$ , make the right-angled triangle  $ACD$  and  $CD$  is the side of a square = the difference of the squares on  $AE$  and  $AC$ , join  $BD$ , then, since the angle  $ACD$  is right and  $ACB$  given, the angle  $BCD$  is also given, but the ratio of  $CB : CD$  is given by the quest. conseq. the triangle  $BCD$  is given in species. But  $AB, AD$  are given lines, conseq. their ratio is given, and if a point on  $BD$  be found, and through it a circle described by the *lemma*, p. 334. Simpson's Algebra, it will intersect  $AC$  in  $A$ , and thus the triangle  $BAD$  will be given in species; but its two sides  $AB, AD$  are given in magnitude, it is therefore given, and thence the triangle  $ACB$  required.



The Composition, by Mr. J. LOWRY, of Birmingham.

On the given base  $AB$  describe a segment of a circle to contain the given angle divide  $AB$  in  $D$  and  $F$  so that  $AD$  may be to  $BD$  in the given ratio, and  $BA.AF$  = the given magnitude; from  $D$  to the circle, apply  $DC$  a mean proportional between  $DF$  and  $DB$ , then  $C$  is the vertex of the required triangle.



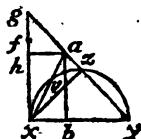
Through the points  $B, F, C$  describe a circle, and let it meet  $AC$  produced in  $E$ , join  $EF, EB$  and  $FC$ , and draw  $AK$  parallel to  $DC$  to meet  $BC$  produced in  $K$ . Then since  $DC$  sq. =  $DF.DB$  by constr.  $DC$  is a tangent to the circle at  $C$ , therefore the angle  $BEC = BCD = BKA$ , and conseq. the four points  $A, K, E, B$  are in a circle, wherefore the rectangle  $AC.CE = BC.CK$ , and therefore  $AC.CE : BC$  sq. ::  $CK : BC :: AD : BD$  by parallel lines; but  $AC.CE = CA.AE - AC$  sq. =  $FA.AB - AC$  sq. = the excess of the given magnitude above  $AC$  sq. therefore that excess has to  $BC$  sq. the given ratio. *q. e. d.*

And like answers are given by Messrs. *Black, Brown, Campbell, Cook, Cowing, Cunliffe, Furness, Glendinning, Smith, Walker, White, Wright, and Youle.*

# The Mathematical Repository, N<sup>o</sup> 62. 39

12. QUEST. 819, answered by Mr. T. WHITE, of Dumfries.

*Geom. Analysis.* Let  $xy$  be the required triangle,  $ab$  the given perpendicular, and  $ax$  the given segment mentioned in the quest.  $\equiv a$  suppose: because the angle  $x$  is right, a semicircle on  $xy$  will pass through  $x$ ; let it cut  $ab$  in  $v$ . Then, by the circle  $xy \equiv (ab + bv) \cdot ab \text{ sq.} - bv \text{ sq.} \equiv ab \text{ sq.} - xby$ , then fore  $ab \text{ sq.} - xy \cdot a \equiv xby$  make  $a.b \equiv ab \text{ sq.}$  then  $a : bx :: by : b - ay$ , but by the quest.  $xb : by :: a : c$  (suppose) hence  $c : by :: by : a - ay$ , and  $by \text{ sq.} \equiv ay \text{ sq.} - ab \text{ sq.}$  i. e.  $by : ay - ab : ayb + ab : by$ , hence  $c : ay - ab :: ay + ab : b - ay$  or  $c : ay + c - ab :: ay + ab : b + ab$  suppose  $ab : c :: b + ab : d$ , then  $ab : ay + c - ab :: ay + ab : d$ , and consequ.  $ab : ay :: ay + c : d - (c - ab) \equiv ab + d -$ , ergo solutum. And the prob. is reduced to the 6th of Simpson's Select Exercises.



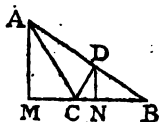
The Composition, by Mr. COLIN CAMPBELL, of Liverpool.

*Construc.* Let  $bx$  be the given perpendicular, and  $bx : gb$  in the given ratio of the segments of the base, and  $gf$  being the last datum, draw  $ab$  at right angles to  $gx$ , and to it apply  $ga$  such, that  $bg \cdot gx \equiv ag \cdot (ag - gf)$  produce  $ag$  to meet  $yx$  drawn parallel to  $ab$  in  $y$ , join  $ax$ , and  $xy$  will be the triangle required.

*Demonstr.* Upon  $yx$ ,  $yg$  demit the perpendiculars  $ab$ ,  $xx$ , then, by similar triangles  $gy : gb :: gx : gx$ , or  $yg \cdot gx \equiv bg \cdot gx \equiv yg \cdot (yg - gf)$  by constr, hence  $ax \equiv gf$ . And  $yb : xb \equiv bx :: ab \equiv ba : gb$ . q. e. d.

The same otherwise, by Mr. SMITH, of Liverpool.

*Constr.* Take  $MC$  the last datum, which produce to  $N$  till erecting the perp.  $ND$ ,  $CD$  may be the given perp. and  $MN \cdot NC$  may be to the square on  $ND$  in the given ratio of the segments of the base, perp. to  $CD$  draw  $AB$  through  $D$  meeting  $MC$  produced in  $B$ , and  $MA$  perp. to  $MB$  in  $A$ , join  $AC$  and  $ACB$  is the req. triangle.

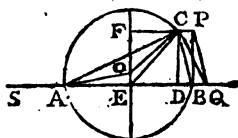


*Démonstr.* For  $CN \cdot NB \equiv DN \text{ sq.}$  or  $CN \cdot NB : CN \cdot NM$  in the given ratio, i. e.  $NB : NM :: BD : DA$  that of the segments; and  $CD, CM$  are the given lines by constr.

And Messrs. Andrew, Cook, Cunliffe, Glendenning, Lowry, and Wright gave other constructions, &c.

13. QUEST. 820, answered by Mr. J. LOWRY, of Birmingham.

*Constr.* At any point  $B$  in the indefinite line  $SQ$  erect a perp.  $BP$  the given one, and draw  $PQ$  to make the angle  $BQP$  the given vertical one, take  $BS$  the given sum of the base and bisecting line, divide  $SB$  in  $E$ , by prob. 29. 5. Simpson's Geometry, so that  $EB \cdot (4SB + 2BQ - 3EB) \text{ may} \equiv SB \text{ sq.}$  make  $AE \equiv EB$  and on  $AB$  describe a segment of a circle to contain the given angle, and intersect  $PC$  drawn parallel to  $AB$  at  $C$ , join  $AC$ ,  $CB$ , and  $ACB$  is the required triangle.



*Demonstr.* To the centre O of the circle draw AO, CO, demit the perp. CD, then  $EC \text{ sq.} = EF \text{ sq.} + FC \text{ sq.} = EF \text{ sq.} + OC \text{ sq.} - OF \text{ sq.}$  but by Simpson's Geom. 1. 2. cor.  $CE \text{ sq.} = OC \text{ sq.} = OE \text{ sq.} + 2 \cdot OE \cdot OF$ , and  $OC \text{ sq.} = AO \text{ sq.} = AE \text{ sq.} + OE \text{ sq.}$  therefore  $CE \text{ sq.} = AE \text{ sq.} + 2 \cdot OE \cdot EF$ ; but by similar triangles  $AE : OE :: EF : BP \cdot BQ$ , hence  $2 \cdot OE \cdot EF = 2 \cdot AE \cdot BQ$ , therefore  $CE \text{ sq.} = AE \text{ sq.} + 2 \cdot AE \cdot BQ$ . Now by Constr.  $EB(4 \cdot SB + 2 \cdot BQ - 3 \cdot EB) = SB \text{ sq.}$  that is  $SB \text{ sq.} - 4 \cdot SB \cdot EB + 3 \cdot EB \text{ sq.} = 2 \cdot EB \cdot BQ$ , add  $BE \text{ sq.}$  to each, and the square on  $(SB - 2 \cdot EB) = EB \text{ sq.} + 2 \cdot EB \cdot BQ = AE \text{ sq.} + 2 \cdot AE \cdot BQ = CE \text{ sq.}$  or  $SB - 2 \cdot EB = CE$ , therefore  $AB + CE = SB$  the given sum. The rest is manifest.

The same otherwise by Mr. COLIN CAMPBELL.

*Constr.* Let  $rpq$  be the given vertical angle, and make  $rq$  the second datum, and perp. to  $pg$ , also, let  $3 \cdot pt = 3 \cdot tw$  the last datum; then take  $ps$  one third



of  $pq$ , and the base AB such, that half AB.  $(2 \cdot ms - \text{half AB}) = 3$  times the square on  $tp$ . Bisect AB in E, and having drawn an indefinite right line parallel to AB at the distance of  $qr$ , apply to it  $EC = 3 \cdot pt - 2 \cdot AE$ , join AC, BC and ACB is the required triangle.

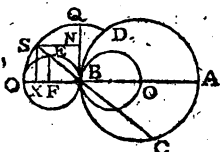
*Demonstr.* Because the rectangle under half AB and  $(2 \cdot ms - \text{half AB}) = 3$  times the square on  $tp$ ,  $(6 \cdot ps + 12 \cdot pt) \cdot AE = 3$  times the square on  $AE$  the square on  $3 \cdot tp$ . Hence  $(2 \cdot pq + 3 \cdot pt) \cdot AE = 3 \cdot AE \text{ sq.} = 9 \cdot tp^2 - 9 \cdot tp \cdot AE$ , therefore  $3 \cdot tp : AE :: 2 \cdot pq + 3 \cdot pt : 3 \cdot AE = 3 \cdot tp - AE$ , that is,  $CE + 2 \cdot AE : AE :: 2 \cdot pq + EC - AE : EC - AE$ , and *dividendo*,  $EC + AE : AE :: 2 \cdot pq : EC - AE$ , conseq.  $2 \cdot pq \cdot AE = EC^2 - AE^2 = 2 \cdot FG \cdot AC$ , and  $AE \cdot CD = AC \cdot FE$ : therefore  $2 \cdot pq \cdot AE : CD \cdot AE :: 2 \cdot FG \cdot AC : FE \cdot AC$ , or  $pq : qr :: FG : FE$ ; wherefore the angle  $FGE = ACB = qpr$ . q. e. d.

Mr. Cook also gave the composition of this prob. in a manner equally concise and ingenious, as did also Mr. Glendenning. Mr. Cunliffe gave the geometrical analysis, answerable to the first composition above. Mr. White gave one somewhat different; as did also Mr. Smith and Mr. Wm. Walker. Mr. Black, Mr. Geo. Brown, Mr. Cowing, Mr. Furness, Mr. Hewitt, and Mr. Youie, did by algebra. Mr. Wright's answer was similar to the first, above inserted, &c.

14. QUEST. 821, answered by Mr. Jos. Dixon, of Leeds, the proposer.

Draw a diameter AB, and on it produced drop the perp. EF and join AC. Put  $AB = a$ ,  $BF = x$ , and  $EF = y$ , the given quantity  $2 \cdot ab = BC \text{ sq.} - BE \text{ sq.}$  Then, by similar triangles  $BE \text{ sq.} : AB \text{ sq.} :: BF \text{ sq.} : BC \text{ sq.}$  i. e.  $x^2 + y^2 : a^2 :: x^2 : 2 \cdot ab + x^2 + y^2$ . or  $a^2 x^2 = (x^2 + y^2) \cdot (2 \cdot ab + x^2 + y^2)$ , hence  $y = \sqrt{(a^2 x^2 / (x^2 + y^2) - 2 \cdot ab - x^2)}$

the equation of the curve: where it is plain that the under sign is the



the vinculum is useless as making two impossible roots. Hence then  $\pm y = \sqrt{(a\sqrt{b^2+x^2} - ab - x^2)}$ . When  $x=0$ ,  $\pm y=0$ , therefore B is a punctum duplex. When  $\pm y=0$ , we have  $\pm \sqrt{b^2+x^2} = ab - x^2$ , and  $x = \pm \sqrt{(a^2 - 2ab)}$  which being laid off upon AB on each side of B, will determine O, O where the curve crosses to return to B. Thus much concerning the figure of the curve.

Again, the fluxion of the area is  $\pm y \dot{x} = \dot{x} \sqrt{(a\sqrt{b^2+x^2} - ab - x^2)}$  which by putting  $x^2 = b^2 + z^2$ , and  $a+b=c$  becomes  $\dot{x} \sqrt{c - z^2}$ .

Now, let  $c - z = p^2$ ,  $z = c - p^2$ ,  $\dot{z} = -2p\dot{p}$  and our fluxion is now  $= \frac{2cp^2\dot{p}}{\sqrt{c-p^2}} + \frac{2z4\dot{p}}{\sqrt{c-p^2}}$ . But, by art. 279 & 280 of Simpson's Fluxions, we find the respective fluents (by restoring  $c$  and making  $4b - a = d$ ) to be  $\frac{1}{2} \text{ ad. arc. rad. } 1 \text{ \& fin. } \frac{p}{\sqrt{a}} - \frac{1}{2} p(d+2p^2)\sqrt{(c-p^2)}$

which properly corrected is  $\frac{\text{ad.}}{4} \text{ arc. rad. } 1 \text{ fin. } \frac{p}{\sqrt{a}} - \frac{dp+2p^3}{4} \sqrt{(c-p^2)}$   
 $= \frac{\text{ad.}}{4} \text{ arc. rad. } 1 \text{ fin. } \sqrt{\frac{a-2b}{a}} + \frac{a}{4} \sqrt{(2ab-4b^2)} = \text{the area BEF when } p = \sqrt{(a-b)} = \sqrt{(b^2+x^2)}$ . Which was required.

An ingenious answer is also given by Mr. J. Wright. Mr. Cunliffe, after his ingenious solution observes, that in the particular case where BA sq. = twice the difference of the squares of BC and BE, the curve will be algebraically quadrable, and the whole area of the oval = half  $a\sqrt{(BA \text{ sq.} - BC \text{ sq.} + BE \text{ sq.})}$ . Answers are also given by Messrs. Black, Glendinning, and Youle. Mr. Bazley's answer is equally true and elegant; he observes, that the curve is a species of *lemniscate*, having a punctum duplex at B; and that these lines of the fourth order, where the even indexes only enter, express many pleasing figures. It is also truly answered by Mr. Colin Campbell.

15. QUEST. 822, answered by Mr. ROB. JA. BLACK, of Sleaford.

This curve, if I mistake not the sense of the question, is the conchoid of Nicomedes, whose equation and quadrature I think unnecessary to insert, since they are both given, or easily obtained from what is done in prop. 21. ex 6. Vince's Fluxions.

And thus it is answered by Messrs. Bazley, G. Brown, Campbell, Cunliffe, Dixon, Glendinning, Smith, Wright, Youle, and others.

16. QUEST. 823, answered by Mr. JA. CUNLIFFE, the Proposer.

Let the required squares be denoted by  $x^2$ ,  $y^2$ , and  $z^2$ , and by the question put  $x^2 + y^2 - z^2 = a^2$ ,  $x^2 + z^2 - y^2 = b^2$ , and  $y^2 + z^2 - x^2 = c^2$ . The sum of the three equations is  $x^2 + y^2 + z^2 = a^2 + b^2 + c^2$ ; by taking half the difference between this, and each of the former equations, we get  $x^2 = \text{half } (a^2 + b^2)$ ,  $y^2 = \text{half } (a^2 + c^2)$  and  $z^2 = \text{half } (b^2 + c^2)$ . From the two first of these,  $a^2 = 2x^2 - b^2 = 2y^2 - c^2$ : put  $x = y + r$ , and  $b = c + s$ ; then  $2x^2 - b^2 = 2(y+r)^2 - (c+s)^2 = 2y^2 - c^2 + 4ry + 2r^2 - 2sc - s^2 = 2y^2 - c^2$ , whence  $v = (2ac - 4ry)$  divided by  $2r^2 - s^2$ ; and therefore  $x = y + r = (2rc - 2ry - s^2y)$  divided by  $(2r^2 - s^2)$ , and  $b = c + s = (2cs + c^2 - 4ry)$  divided by  $(2r^2 - s^2)$ . Now from what is done  $2y^2 - c^2 = a^2$ , and therefore that  $y$ ,  $r$  and  $a$



may be rational, put  $7 = (2r^2 - s^2) \cdot (m^2 + n^2)$  and  $c = (2r^2 - s^2) \cdot (n^2 - m^2 + 2mn)$ , from whence  $a = (2r^2 - s^2) \cdot (m^2 n^2 + 2mn)$ . By means of which, and what is deduced above  $b = (2r^2 + s^2) \cdot (n^2 - m^2 + 2mn) - 4rs(m^2 + n^2)$ ; and therefore  $x^2 = \text{half } (b^2 + c^2) = (4r^4 + s^4) \times (n^2 - m^2 + 2mn)^2 + 4rs(2r^2 + s^2) \cdot (m^4 - n^4) - 8rsmn(2r^2 + s^2) \times (m^2 + n^2) + 8r^2 s^2 (m^2 + n^2)^2 = m^4 (2r^2 + s^2 + 1)^2 - 4n^3 n (4r^4 + 4r^3 s - 2rs^3 + s^4) + 2m^2 n^2 (4r^4 + 8r^2 s^2 + s^4) + 4mn^3 (4r^4 - 4r^3 s - 2rs^3 + s^4) + n^4 \times (2r^2 - 2rs + s^2)^2$ .

$$\text{Put } x = m^2(2r^2 + 2rs + s^2) - 2mn \times \frac{4r^4 + 4r^3 s + 2rs^3 + s^4}{2r^2 + 2rs + s^2} - n^2 + (2r^2 - 2rs + s^2), \text{ and then there will be had } m^4(2r^2 + 2rs + s^2)^2 - 4m^3 n(4r^4 + 4r^3 s + 2rs^3 + s^4) + 2m^2 n^2(4r^4 + 8r^2 s^2 + s^4) + 4mn^3(4r^4 - 4r^3 s - 2rs^3 + s^4) + n^4(2r^2 - 2rs + s^2)^2 = \text{the square of the expression for } x \text{ above} = m^4(2r^2 + 2rs + s^2)^2 - 4m^3 n(4r^4 + 4r^3 s + 2rs^3 + s^4) + 4m^2 n^2 \times \left( \frac{4r^4 + 4r^3 s + 2rs^3 + s^4}{2r^2 + 2rs + s^2} \right)^2 - 2m^2 n^2(4r^4 + s^4) + 4mn^3(4r^4 + 4r^3 s + 2rs^3 + s^4) \times \frac{2r^2 - 2rs + s^2}{2r^2 + 2rs + s^2} + n^4 \times (2r^2 - 2rs + s^2)^2, \text{ which gives } m = n \times \frac{((4r^4 + s^4)(4r^4 + 4r^3 s + 2rs^3 + s^4) - (2r^2 + 2rs + s^2)^2 \times (4r^4 - 4r^3 s - 2rs^3 + s^4))}{(2r^2 + s^2)^2 \times (2r^2 - 2rs + s^2)^2 - (4r^4 + 4r^3 s + 2rs^3 + s^4)^2}$$

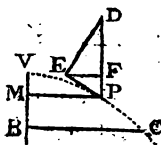
which will further reduce  $m = n \times \left( \frac{4r^2 s^2 + 4r^3 s + 2rs^3}{4r^4 + 4r^3 s + 2rs^3 + 2r^2 s^2 + s^4} \right)$ .

Put  $n = 4r^4 + 4r^3 s + 2rs^3 + 2r^2 s^2 + s^4$ , then will  $m = 4r^2 s^2 + 4r^3 s + 2rs^3$ , where  $r$  and  $s$  may be expounded by any rational numbers whatever. For example, if  $r$  and  $s$  be taken each equal to unity, then  $n = 13$  and  $m = 10$ ; and therefore from what is done  $c = 329$ ,  $a = 191$ , and  $b = 89$ ;  $x = 149$ ,  $y = 269$  and  $z = 241$ . Which are the roots of the three squares required. And are three of the least numbers that I have hitherto been able to discover. Other forms might have been obtained for the relation of  $m$  and  $n$ , or of  $r$  and  $s$ , but the foregoing seemed to be the most eligible. I have endeavoured to make the preceding solution as concise and general as the nature thereof seemed to admit. 'Tis true I have not put down very minute particulars, for fear of exceeding the limits of the Diary, but think I have not so omitted any material step, as to leave the process obscure, and that the whole will be sufficiently intelligible to an attentive reader.

True answers were also given by Mr. Tho. White, and Mr. John Wright.

17. QUEST. 824. answered by Mr. A. GLENDENNING, Naval Hospital, Great Yarmouth.

Suppose EP a tangent to the required line VPC, and DP perp. to BC to be any force acting thereon. Let DE perp. to EP, EF to DP, and the ordinate MP be drawn. Then the absolute force DP may be resolved into the non-efficacious force PE, and the efficacious force p. to BC, or the force acting at the point P as  $PM \times (VP^2)^{-1} = \frac{p^2}{32}$ . And if it be the



properly's meaning, that the whole number of particles acting upon VP is as  $y$ ,  $\frac{y^3}{z^2}$  is required to be a minimum, when  $VM=x$  is a given

quantity  $= VB$ , by Simpson's Fluxions, art. 406.  $\frac{xy^3}{z^2} = a$ —a constant quantity, which is the equation of the curve which generates the solid of the least resistance, whence that solid is the required figure of the roof.

And (by Simpson's Fluxions art. 4 & 443) the solid is either a cone, or the frustrum of a greater cone, and conseq. its surface and weight, &c. become known.

The same answered otherwise, by EUMENES.

The efficacious force acting at P on the roof VPC, in direction perp. to BC is as  $\frac{EP^2}{EP^2}$  or  $\frac{y^2}{z^2}$ , and the number of particles so acting as  $2py$ .

$\frac{y^2}{z}$ , then by Simpson's Miscellaneous Tracts, p. 103,  $d = \frac{y^2 x}{z^3} = yx \frac{(z^2 - x^2)}{z^3}$ , or  $d\frac{z}{z^3} = yx$ ,  $(z^2 - x^2)$ ,  $\frac{d}{y} = \frac{x}{z} - \frac{x^3}{z^3}$ ,  $\frac{dz}{y^2} - \frac{z^2}{x^2} + 1 = 0 =$

$1 - \Delta \cdot \frac{z^2}{x^2}$ ; suppose then  $\frac{dz}{yx} = 1 - \Delta$ , and, to make the conclusion

the most simple that the problem admits of make  $\frac{dz}{yx} = 1 - \Delta = \frac{a}{y}$ , then

$\frac{z}{x} = \frac{a}{y}$  and consequently VPC is a right line, and the roof of a right cone, whose altitude and diam. being given, the numbers are easily found, &c.

It was also answered by the Rev. Mr. Furness, Mr. Hewitt, Mr. O'Riordan, and Mr. Tho. White.

Eumenes further observes with respect to this prob. since  $\frac{y^3}{z^2}$  is to be a minimum, it seems as if the rule given by Mr. Simpson at page 104 and 105 of his Miscell. Tracts might be applied to it. In which case

putting  $\frac{xy^3}{z^2} = u$  and  $\frac{y^3}{z^2} = a$ , we have  $\frac{x}{u} = \frac{y}{ay}$ , or  $\frac{2u}{a^2} = \frac{y}{y}$  and taking

the fluent,  $a^2 y = a^2$ ,  $u = \frac{2y}{a^2} = ay^{\frac{1}{2}}$ ,  $2y^{\frac{1}{2}} y = a^2$ ,  $\frac{1}{2} y^{\frac{1}{2}} = \frac{1}{3} a^2$ ,  $\frac{1}{3} y^{\frac{3}{2}} =$

$\frac{4}{9} b^{\frac{3}{2}} = \frac{1}{3} a^2$ , because  $z$  and  $y$  cannot begin together, as appears in the

sequel,  $y^{\frac{3}{2}} - b^{\frac{3}{2}} = \frac{1}{3} a^2$ , hence  $\frac{4y^{\frac{3}{2}}}{a^2} = y^{\frac{3}{2}} + x^2$ ,  $x = \frac{y}{a} \sqrt{(4y - a^2)}$ ,

$x = \frac{(4y - a^2)^{\frac{1}{2}}}{6a}$ , but at the beginning of the curve  $x$  must of

necessity be  $= 0$ , and  $4y = a^2$ , conseq.  $x$  &  $y$  cannot begin together, but since the first value of  $y$  is  $b$ ,  $a = 2\sqrt{b}$ , and hence the required super-

ficies of the roof is the fluent of  $2py = \frac{4p}{a} y^{\frac{3}{2}} y$  or  $\frac{8}{5a} py^{\frac{5}{2}}$  and hence

the

the numbers may be readily found. But as on this hypothesis great part of the roof must be horizontally flat, it seems as if the cone, as above determined, were the only proper answer that the question admits of.

18. QUEST. 825, answered by Mr. JAMES CUNLIFFE.

Let  $l$  = the whole length of the chain,  $p$  = the part hanging down between the two planes,  $x$  = the variable part or that above the nether plane,  $2g = 32\frac{1}{6}$  the force of gravity,  $v$  = the velocity per second of the end of the chain along the upper plane, and  $t$  = the time in motion.

By the laws of motion  $pgx^{-1}$  = the accelerative force urging the chain in the direction of its length, also  $v \dot{v} = -\frac{2pg\dot{x}}{x}$ , the correct

fluent of which gives  $v^2 = 4pg \cdot \text{hyperb. log. of } \frac{l}{x}$ , whence  $v = 2\sqrt{pg} \times \text{hyp. l. } \frac{l}{x}$ . Hence  $t = \frac{-\dot{x}}{v} = \frac{x \dot{v}}{2pg}$ , and  $t = \text{flu. } \frac{x \dot{v}}{2pg} = \text{flu. } \frac{v \dot{x}}{2pg} = \frac{v}{2pg} + \text{flu. } \frac{xv \dot{v}}{(2pg)^2} = \frac{v}{2pg} + \frac{xv}{3(2pg)^2} + \text{flu. } \frac{v^3 \dot{x}}{3(2pg)^2} = \frac{v}{2pg} + \frac{xv^3}{3(2pg)^2} + \text{flu. } \frac{xv^4 \dot{v}}{3(2pg)^2} = \frac{v}{2pg} + \frac{xv}{3(2pg)^2} + \frac{xv^5}{3 \cdot 5(2pg)^3} + \text{flu. } \frac{v^5 \dot{x}}{3 \cdot 5(2pg)^3}$ , whence the law of continuing the series will be manifest, and  $t = \frac{v}{2pg} : (1 + \frac{v^2}{3(2pg)} + \frac{v^4}{3 \cdot 5(2pg)^2} + \frac{v^6}{3 \cdot 5 \cdot 7(2pg)^3} + \frac{v^8}{3 \cdot 5 \cdot 7 \cdot 9(2pg)^4} + \text{etc.})$ , which is a general expression for the time of describing any variable length of the chain. But  $v^2 = 4pg + \text{hyp. l. of } \frac{l}{x} = 4pgc$ , &  $t = \frac{x\sqrt{c}}{\sqrt{pg}} \times (1 + \frac{2c}{3} + \frac{4c^2}{3 \cdot 5} + \frac{8c^3}{3 \cdot 5 \cdot 7} + \frac{16c^4}{3 \cdot 5 \cdot 7 \cdot 9} + \text{etc.})$  and when  $x = \frac{1}{2}$ ,  $l = \frac{1}{2}$  feet,  $p = \frac{1}{2}$ , and  $c = \text{hyp. l. of } 5$ , gives  $1.7244153$  of a second, which, I presume is correct to the 6th decimal place. Also  $v$  = feet  $7.19515$  the velocity per second with which the end of the chain quits the upper plane.

The same answered by Mr. COLIN CAMPBELL.

Let  $f$  = the accelerative force when the chain has descended through any variable height  $x$ ,  $v$  = the cotemporary velocity, and  $t$  = the time in which it is acquired. Then, per quest. 6 is as the motive force, and  $30 - x$  as the matter moved, therefore  $\frac{6}{30 - x} = f$ , conseq.  $v = \sqrt{(4 \times 193 \times \text{fluent of } \frac{6\dot{x}}{30 - x})}$ , by *Atwood on Motion*, Sect. 3, prop. 5. cor. 4.) which duly corrected, when  $x = 24$ , gives  $v$  the velocity per second  $= \sqrt{(4 \times 193 \times 6 \times \text{hyp. l. of } 5)} = \text{inches } 80.3418$  with which the end quits the plane. And hence in order to ascertain the time (ibid)

(ibid)  $i = \frac{1}{\sqrt{4 \times 193 \times 6}} \times \frac{x}{\sqrt{\text{hyp. l. of } \frac{30}{30-x}}}$  let  $n$  denote the number

whose hyperb. log. is unity, and put  $x = \text{hyp. l. of } \frac{30}{30-x}$  then will

$\frac{30}{30-x} = n^x = 1 + x + \frac{x^2}{2} + \frac{x^3}{2 \cdot 3}$ , &c. by Simpson's Fluxions,

vol. II. p. 499, also  $-x = 30 n^{-\infty} x$  and  $i = \frac{30}{\sqrt{4 \times 193 \times 6}} \times x^{-\frac{5}{2}}$

$x^{-\frac{5}{2}}$ , hence  $i = \frac{60x^{\frac{1}{2}}}{\sqrt{4 \times 193 \times 6}} \times (1 - \frac{x}{3} + \frac{x^2}{2 \cdot 5} - \frac{x^3}{2 \cdot 3 \cdot 7} + \frac{x^4}{2 \cdot 3 \cdot 4 \cdot 9}$

$\frac{x^6}{2 \cdot 3 \cdot 4 \cdot 5 \cdot 11}$ , &c.), and when  $x=24$  and  $x = \text{hyp. l. of } 5 = 72416$  of

a second, the time required. And thus it is answered by Mr. J. Wright, and in a manner little different, by Mr. Bazley. It is also ingeniously answered by Mr. Tho. White, and Messrs. G. Brown, J. Cowing, J. Farnasi, A. Glendenning, T. Hewitt, and A. Rowe.

PRIZE QUESTION, answered by Mr. THO. BAZLEY, of Bolton le Moors.

Let APD be a semi-section of the bowl, through the axis ECD, E the position of the eye, with radius AC and centre C describe a quadrant, which per quest. is the image of APD. Let PF represent a ray of light emitted from the point P, and refracted at F to the eye in direction FE, produce EF, and draw Pr perp. to AC to meet the circle in t, then, by Emerson's Optics pr. 9. cor. 6. book 3d, r is the image of P.



This being premised, draw ro and PQ perp. to CD, and Fiu parallel to CD and join FP. Put CA=Cr=CV=r, EO=V, PQ=r=y, and the ratio of the sines of incidence and refraction  $n:m$ . By sim. triangles ErO, Fri,

EO:Fi=CO::rO:ri, i.e.  $v:v-r::y:ri = \frac{y}{v} \times (v-r)$ ,  $F^2=Fi^2 +$

$ri^2 = (v-r)^2 + \frac{y^2}{v^2}$ .  $(v-r)^2$  equal to  $(v-r)^2 + (v-r)^2 \cdot \frac{r^2 - (v-r)^2}{v^2}$

by the nature of the circle. Again  $FP^2 = Fv^2 + Pv^2 = CQ^2 + ri^2 = CQ^2 + \frac{(v-r)^2}{v^2} \times (r^2 - (v-r)^2)$ , whence by the principles of dioptrics

$F^2:FP^2::n^2:m^2::(v-r)^2 + \frac{(v-r)^2}{v^2} \cdot (r^2 - (v-r)^2):CQ^2 +$

$\frac{(v-r)^2}{v^2} \cdot (r^2 - (v-r)^2)$ : whence by expanding the terms, &c.  $CQ =$

$\frac{v-r}{\sqrt{v}} \sqrt{\frac{2r(m^2-n^2)+vn^2}{n^2}}$ . Now, writers on Fluxions demonstrate

that  $2p \times CQ \times PQ \times \text{fluxion of PQ}$  (where  $p=3.1416$ ) is the fluxion of the solid, that is  $2pv \times \frac{(v-r)^2}{\sqrt{v}} \sqrt{\frac{2r(m^2-n^2)}{n^2}} = a$ , &c.

$$=d, \text{ and it is } 2p \left( -\frac{(v-r)^2 v}{\sqrt{v}} \sqrt{(a+v)} \right) = 2p \left( -\frac{(v^2 - 2rv + r^2) v}{\sqrt{v}} \right)$$

$$\sqrt{(a+v)} = 2p \times \left( -\frac{(v^2 - 2rv + r^2) \cdot (a+v) v}{\sqrt{v} \sqrt{(a+v)}} \right) = 2p \times$$

$$\frac{-v^3 v - (a-d)v^2 v + (ad-r^2)vr - ar^2 v}{\sqrt{v} \sqrt{(a+v)}}.$$

Now the several terms of

the last expression correspond with the known tabular forms, and the fluentes being respectively found and united, we obtain  $2p \times$

$$\left( -\frac{1}{3}v^{\frac{5}{2}} + \frac{1}{2}a^{\frac{5}{2}} - \frac{1}{2}(a-d)v^{\frac{3}{2}} + (d-r^2 + \frac{3}{2}a(a-d) - \frac{1}{8}a^2)v^{\frac{1}{2}} \right) \sqrt{(a+v)}$$

+  $\left( +\frac{1}{2}a^{\frac{5}{2}} - \frac{1}{2}a^{\frac{3}{2}}(a-d) - (ad-r^2) - 2ar^2 \right) \times \text{hyp. log. of } v^{\frac{1}{2}} + \sqrt{(a+v)}$ . But when  $v=EV=2r=d$ , this whole expression ought to vanish, and the correct value is=

$$\left\{ \left( \frac{1}{2}d^{\frac{5}{2}} - \frac{1}{2}a^{\frac{5}{2}} + \frac{1}{2}(a-d)d^{\frac{3}{2}} - (da-r^2 + \frac{3}{2}a(a-d) - \frac{1}{8}a^2)d^{\frac{1}{2}} \right) \right. \\ \times \sqrt{(a+d)} \left( -\frac{1}{3}v^{\frac{5}{2}} + \frac{1}{2}a^{\frac{5}{2}} - \frac{1}{2}(a-d)v^{\frac{3}{2}} + (ad-r^2 + \frac{3}{2}a(a-d) - \frac{1}{8}a^2)v^{\frac{1}{2}} \right) \times \sqrt{(a+v)} \\ \left. + \left( +\frac{1}{2}a^{\frac{5}{2}} - \frac{1}{2}a^{\frac{3}{2}}(a-d) - (ad-r^2) - 2ar^2 \right) \times \text{hyp. log. of } \frac{\sqrt{v} + \sqrt{(a+v)}}{\sqrt{d} + \sqrt{(a+d)}} \right\} \times 2p$$

In the present case, when  $v=6$  inches,  $n=3$  and  $m=4$ ; the numerical value of this expression becomes 623.525 cubic inches, or 21.59 wine pints the content required.

Answers to this are also given by Messrs. *George Brown, Cowing, Cunliffe, Furness, Glendenning, Harris, J. Todd, T. Wright, and Gr. Williams.*

The first Prize of *ten* Diaries for the solution to the *Prime Question* is fallen to Mr. *James Cunliffe*, of Bolton le Moors, in Lancashire.

The second Prize of *eight* Diaries, to Mr. *John Todd*, of Berwick.

The third Prize of *nine* Diaries, for the general poetical answer to the *Enigmas* to Mr. *Wm. Spencer*, of Sapcote, in Leicestershire.

The fourth Prize of *nine* Diaries, for answering the Prize *Enigma* to Mr. *Joseph Hindson*, of Lincoln.

They must send to Mr. G. Greenhill, at Stationers'-Hall for them.

**NEW MATHEMATICAL QUESTIONS, to be answered in next Year's DIARY.**

(1) QUEST. 827, by Mr. MIC. O'RIORDAN, Carlow, in Ireland.

Let there be a right line harmonically divided, and from any point without it let right lines be drawn through its extremities, and the points of division; then any right line drawn from the one extremity, to terminate in the right line that passes through the other, will also be harmonically divided by the intermediate lines. Required the demonstration?

(2) QUEST. 828, by LIMENUS, of Bruton, Somerset.

If from a point in or about a circle as a pole right lines be drawn, having a given ratio to the parts terminated by the circumference, the locus of the extremities of those lines will also be a circle, Required the demonstration?

3. QUEST.

(3) QUEST. 829, by Mr. T. HEWITT, of London.

On the 1st of May, 1800. I observed the sun to be due east 2 ho. 10 min. after his rising. Required the latitude of the place of observation?

(4) QUEST. 830, by Mr. JOHN ANDREW, of Cork.

Given the vertical angle, the perpendicular, and the difference of the squares of the perpendiculars let fall from the foot of the given one upon the two sides, to construct the triangle?

(5) QUEST. 831, by Mr. GEO. BROWN, of Newcastle upon Tyne.

Let ACB be any plane triangle, and Q the centre of the inscribed circle, draw CO, which continue till it meet in H the periphery of the circle passing through A, O, B; then it will be as the perpendicular of the triangle : CH :: CO : the diameter of the circle circumscribing the triangle ACB. Required the demonstration?

(6) QUEST. 832, by Mr. ALEXANDER ROWE, of Reginnis.

Given the greater segment of the base = 8 chains, and the ratio of the less segment to the perpendicular as 3 to 4. Required the base, and area of the triangle when the difference between the area and the square of the perpendicular is a maximum, and to construct the triangle?

(7) QUEST. 833, by Mr. JACOB COOK.

Given the base, the vertical angle, and the prolongation from the centre of the subscribed circle to the periphery of the circumscribing one of a right line drawn from one of the angles at the base, to construct the triangle?

8. QUEST. 834, by Mr. JOHN ANDREW.

Given the sum of the sides, the perp. and the rect<sup>g</sup>le of the segments of the base made at the point of contact of the inscribed circle, to construct the triangle?

(9) QUEST. 835, by Mr. WM. SMITH, of Liverpool.

From any point G in the produced paramet<sup>r</sup>: AB of a given parabola, GE is drawn to touch the curve in E and produced to Q till EQ = GE, through E and Q draw two perps to the parameter in D and P, produce DE to C in the periphery of the semicircle described on the diameter AB, and at C draw a tangent RS to the semicircle, meeting AB produced in S, and the perp. PQ produced in R. Then I say that CS will always = 2 RC. Required the demonstration?

(10) QUEST. 836, by Mr. JAMES CUNLIFFE.

In any plane triangle if perpendiculars to the sides be drawn from their opposite angles, the point in which these perpendiculars intersect each other is the centre of a circle inscribed in the triangle formed by joining the extremities of the said perpendiculars. Required the demonstration?

(11) QUEST. 837, by Mr. JOHN LOWRY, of Birmingham.

Given the line bisecting the base, the sum of the sides, and the radius of the inscribed circle to construct the triangle.

12. QUEST.

(12) QUEST. 838, by Mr. COLIN CAMPBELL, of Liverpool.

If  $CD$  make right angles with the diameter  $ADB$  of any semicircle  $ACB$ , and from  $C$  a tangent be drawn to meet  $AB$  produced in  $E$ , and from  $E$  a line  $EI$  to cut the semicircle in  $G$  and  $I$ , and  $CD$  in  $F$ , and from  $I$  a perpendicular  $IH$  demitted on  $AB$ ; draw  $HG$  and it will bisect  $FD$  in  $S$ . Required the demonstration?

(13) QUEST. 839, by Mr. JOHN LOWRY.

Given the base, and ratio ( $a$  to  $b$ ) which the area of the triangle has to the square of one side, together with the space to which the square of the other side has a given ratio ( $m$  to  $n$ ), to construct the triangle, when one of the angles at the base is a maximum?

(14) QUEST. 840, by Mr. A. GLENDENNING.

To draw a right line through the focus of a given conic-section, so that the rectangle, sum, or difference of the parts thereof, intercepted between the focus and curve, may be of given magnitude?

(15) QUEST. 841, by ———.

From the greater acute angle of a given right-angled plane triangle, to draw a right line within the triangle, to terminate in the opposite leg, and make the rectangle under the said right line, and the segment of the leg made thereby adjacent to the other acute angle a maximum.

Here both the construction and demonstration are required to be strictly geometrical.

(16) QUEST. 842, by Mr. JOHN WRIGHT, of Norley.

Given the base and vertical angle of a plane triangle to construct it, when the solid under one side and the square of the other side is a maximum?

(17) QUEST. 843, by Mr. JOHN TODD, of Berwick.

The apparent time at London of the conjunction of the Moon and the star Aldebaran, Dec. 16th, 1812, being 10 h. 16 m. P. M. it is required to determine the place where the star will be centrally eclipsed at 12 ho. PM. the sun's place being  $8s. 24^{\circ} 55'$  that of the moon and the star  $2s. 7^{\circ} 9'$ , the stars latitude  $5^{\circ} 29' 50''$  south, that of the moon  $4^{\circ} 52' 57''$   $8D$ . her horizontal parallax  $1^{\circ} 0' 20''$ , her sidereal hourly motion  $36' 50''$ , and the angle of her way with the axis of the ecliptic  $88^{\circ} 39'$ .

PRIZE QUESTION, by EUMENES.

If a freight slender uniformly dense rod, of heavy metal, be placed with its centre of gravity between an horizontal perfectly polished plane, and the smooth edge of a vertical one: required the initial force or tendency, which its lower end has to slide along the horizontal plane, and the equation and quadrature of the curve described by the centre of gravity of the rod, while it is so sliding?

Whoever sends a true answer before the 1st of May 1802 has a chance for ten, and another for eight Diaries.

F I N I S.

**The LADIES' Diary:**  
 OR  
**WOMAN'S ALMANACK,**  
 For the Year of our LORD 1802;  
 Being the Sixth after BISSEXTILE, or LEAP-YEAR.  
 And the Second Year of the Nineteenth Century.  
 Containing New Improvements in ARTS and SCIENCES,  
 And many Entertaining PARTICULARS:  
 Designed for the *Use* and *Diversiſon* of the  
**F A I R - S E X.**

The Ninety-ninth ALMANACK Published of this Kind.



18. 144. 42  
 VIRTUE and SENSE, with FEMALE-SOFTNESS join'd,  
 (ALL that subdues and captivates Mankind !)  
 In BRITAIN'S Matchless FAIR resplendent shine;  
 THEY rule LOVE's Empire by a Right Divine:  
 Justly their Charms the astonish'd World admires,  
 Whom Royal CHARLOTTE's bright Example fires.

L O N D O N,

PRINTED for the COMPANY of STATIONERS,  
 By M. Brown, St. John's-square, Clerkenwell;  
 And sold by G. GREENHILL, Treasurer, at their Hall in Ludgate-Sreet.  
 [Price stitched, SEVENTEEN-PENCE.]



<i>Y. of Christ.</i>	<i>Y. since.</i>	<i>Y. of Christ.</i>	<i>Y. since.</i>
1600 King Charles I. born	202	1714 Q. Ann died, K. Geo. I. succ.	88
1603 Q. Eliz. died, K. Ja. succ.	199	1715 Rebellion in the north	87
1603 A great Plague in London	199	1716 A very great frost	86
1605 Popish Gun-powder Plot	197	1726 Sir Isaac Newton died	76
1616 Shakspeare the poet died	186	1727 K. Geo. I. died, Geo. II. succ.	75
1625 K. James died, Cha. I. succ.	177	1739 War against Spain declared	63
1641 Bloody Irish massacre	161	1739 A very great frost	63
1642 Sir I. Newton born, Dec. 25	160	1743 A great comet appeared	59
1649 K. Charles I. beheaded	153	1744 War against France declared	58
1658 Oliver Cromwell died	144	1745 Rebellion in Scotland	57
1660 K. Charles II. restored	142	1748 A general peace	54
1662 Royal Society instituted	140	1750 Westminster bridge finished	52
1665 Died of the plague 68,586	137	1752 Date and Calendar altered	50
1666 Great fire in London	136	1756 War against France declared	46
1666 War against Denmark decl.	136	1760 K. Geo. II. died, G. III. succ.	42
1667 Peace with Hol. Fr. & Den.	135	1762 American philos. soc. instit.	40
1672 War against Holland decl.	130	1762 War against Spain declared	40
1672 Halfpence & Farth. coined	130	1763 Peace with France & Spain	39
1674 Peace with Holland procl.	128	1765 Otaheite discovered	37
1679 Habeas Corpus act passed	123	1770 Blackfriars bridge finished	32
1685 K. Cha. II. died, Ja. II. succ.	117	1772 A revolution in Denmark	30
1688 Prince of Orange landed	114	1772 A revolution in Sweden	30
1688 K. James II. abdicated	114	1775 War against America begun	27
1689 Wm. and Mary crowned	113	1776 America declared independent	26
1693 Hackney coaches established	109	1778 French treaty with America	24
1702 K. Wm. died, Q. Ann succ.	100	1778 War against France begun	24
1702 War against France declared	100	1779 War against Spain begun	23
1707 England & Scotland united	95	1780 War against Holland begun	22
1713 Peace with France procl.	89	1783 A general peace	19

BIRTH-DAYS, [N. S.] and YEARS, of the ROYAL FAMILY OF GREAT BRITAIN.

KING GEORGE III. June 4,	1738	Prince Adolph. Fred. Feb. 24,	1774
Prince of Wales, August 12,	1762	Princess Mary, April 25,	1776
Duke of York, August 16,	1763	Princess Sophia, Nov. 3,	1777
Duke of Clarence, Aug. 22,	1765	Princess Amelia, Aug. 7,	1783
Duchess of Wirtem. Sept. 29,	1766	Queen Charlotte, May 19,	1744
Duke of Kent, Nov. 2,	1767	Duchess of Brunsw. Aug. 11,	1737
Prs. Augusta Sophia, Nov. 8,	1768	Duke of Gloucester, Nov. 25,	1743
Prs. Elizabeth, May 22,	1770	Princess of Wales, May 17,	1768
Duke of Cumberland, June 5,	1771	Duchess of York, May 7,	1767
Prince Aug. Fred. Jan. 27,	1773		

YEARS of BIRTHS of the Principal SOVEREIGN PRINCES of EUROPE.

Charles Emanuel K. of Sard.	1751	William V. Stadtholder,	1748
Alexander, Emperor of Russia		Charles, IV. King of Spain,	1748
Maria, Queen of Portugal	1734	Christian VII. K. of Denmark,	1749
Frederic V. King of Prussia,	1770	Ferdinand IV. King of Sicily,	1751
Gustavus IV. King of Sweden,	1778	Selim III. Grand Seigneur	1761
Francis II. Emp. Germ.	1767	Pius VII. Pope	1742

# N<sup>o</sup> 99. January hath xxxi Days.

3

New Moon, 4th, 8m. past 8 morn.  
 First Quarter, 10th, 4m. past 12 night.  
 Full Moon, 18th, 48m. past 9 night.  
 Last Quarter, 27th, 3m. bef. 1 morn.

Sun enters =  
 zod. 4h. 27m.

1	F	Circumcision	8	4	3	56	23	3	5	m	13	27			
2	S			4		56	22	58	6		36	28			
3	C	2 Sunday after Christmas	3	57		53	7	52	7			29			
4	M		2	58		47	D	sets	N						
5	Tu		2	58		40	5	a	15			1			
6	W	Epiphany <i>Twelfth-day: Old</i>	1	59		34	6	51	2						
7	Th	[Christmas Day]	0	4	0	26	8	24	3						
8	F	Lucian	7	59		1	19	9	50	4					
9	S			58		2	10	11	15	5					
10	C	1 Sunday after Epiphany	57		3	2	morn		6						
11	M	Plough Monday	56		4	21	53	0	35	7					
12	Tu	[New-Y. day]	55		5	43	1	53	8						
13	W	Hilary: Cam. Ter. b. Old	54		6	38	3	14	9						
14	Th	Orf. Term begins	53		7	23	4	33	10						
15	F		52		8	12	5	43	11						
16	S		50		10	1	6	45	12						
17	C	2 Sunday after Epiphany	49		11	20	50	7	32	13					
18	M	Queen Char. birthday kept	48		12	38	D	rises	F						
19	Tu	[Prisca. Old Twelfth Day]	46		14	25	4	a	41	15					
20	W	Fabian	45		15	13	5	52	16						
21	Th	Agnes	44		16	0	7	5	17						
22	F	Vincent	42		18	19	46	8	15	18					
23	S	Hilary Term begins	41		19	32	9	26	19						
24	C	3 Sunday after Epiphany	39		21	18	10	38	20						
25	M	Conversion of St. Paul	38		22	4	11	52	21						
26	Tu		36		24	18	49	morn	22						
27	W	Pr. Augustus Fred. b. 1773	34		26	34	1	10	23						
28	Th		33		27	18	2	33	24						
29	F		32		29	2	3	58	25						
30	S	K. Charles I. mart. 1649	30		30	17	46	5	18	26					
31	C	4 Sunday after Epiphany	28		32	30	6	25	27						
Days	L. of D.	Day Inc.	D. breaks	Tw. ends	Sun East	Cl. bef. S.	7 Stars	So							
1	7	52	0	8	5	59	6	1	4	41	3	48	8	a	43
6		58		14		57		13		41	6	6			21
11	8	8		24		54		6		46	8	13	7		39
16		20		36		49		11		49	10	5			35
21		32		48		44		16		53	11	38			17
26		48		4		38		22		57	12	54	6		55

# February hath xxviii Days. 1802.

New Moon, 2d, 34m. past 6 aftern.	Sun enters ☿ 18d. 19h. 14m.
1st Quarter, 9th, 1m. past 2 aftern.	
Full Moon, 17th, 8m. past 5 aftern.	
1st Quarter, 25th, 49m. past 1 aftern.	

W D	Sundays, Holidays, &c.	Sun rises	Sun sets	Sun's decl.	D rises & sets	D's Age
M		7 26	4 34	17 13	7 m 12	28
Tu		25	35	16 56	D sets	N
W	<i>Epiph.</i> or Candlemas day	23	37	38	5 a 41	1
Th		21	39	20	7 15	2
F	<i>Agatha</i>	19	41	2	8 42	3
S		18	42	15 44	10 7	4
M	5 Sunday after Epiphany	16	44	26	11 31	5
Tu		14	46	7	morn	6
W		12	48	14 48	0 54	7
Th		10	50	28	2 13	8
F		9	51	9	3 29	9
S	Hilary Term ends	7	53	13 49	4 35	10
		5	55	29	5 26	11
M	Septuagesima Sunday	3	57	9	6 7	12
Tu	<i>Septuagesima Monday</i>	1	59	12 49	6 33	13
W		6 59	5 1	28	6 53	14
Th		57	3	7	D rises	F
F		55	5	11 46	5 a 59	16
S		53	7	25	7 14	17
		52	8	3	8 25	18
M	Sexagesima Sunday	50	10	10 42	9 40	19
Tu		48	12	20	10 57	20
W		46	14	9 58	morn	21
Th	<i>St. Matthias: Pr. Ad. Fr. b.</i>	44	16	36	0 18	22
F	<i>Quinquagesima: Pr. Ad. Fr. b.</i>	42	18	14	1 40	23
S		40	20	8 52	3 2	24
		38	22	29	4 12	25
		36	24	7	5 5	26
	Quinquagesima or Shrove Sunday					

L. of D.	Day Inc.	D. breaks	Tw. ends	Sun East	Cl. bef. S.	Stars So.
9 8	1 24	5 31	6 29	5 4	13 58"	6 a 32
24	40	23	37	9	14 29	11
42	2 58	15	45	15	39	5 51
10 2	18	6	54	20	29	32
20	36	4 57	7 3	26	1	13
40	56	48	12	32	13 18	4 54

# Nº 99. March hath xxxi Days.

New Moon, 4th, 55m. past 4 morn.  
 First Quarter, 11th, 24m. past 6 morn.  
 Full Moon, 19th, 15m. past 11 morn.  
 Last Quarter, 26th, 7m. past 11 night.

Sun enters  
 zod. 19h. 3

1	M	David Tuesday	6	34	5	26	7	44	5	m4.
2	Tu	Ash Wednesday <i>Gbad</i>	32			28		21	6	
3	W		30			30	6	58	6	21
4	Th	☉ eclips. invisible	28			32		35	D	sets
5	F		26			34		12	7	a 3
6	S	Quadra. or 1 Sun. in Lent	24			36	5	49	9	
7			22			38		26	10	3
8	M	[Perpetua	20			40		2	11	5
9	Tu	Ember Week	18			42	4	39	morn	
10	W		16			44		16	1	1
11	Th		14			46	3	52	2	2
12	F	Gregory	12			48		29	3	2
13	S	2 Sunday in Lent	10			50		5	4	1
14			8			52	2	41	4	4
15	M		6			54		18	5	
16	Tu		4			56	1	54	5	2
17	W	St. Patrick	2			58		30	5	3
18	Th	Edward King of W. Sax.	0	6		0		7	5	4
19	F	☽ eclips. invisible	5	58		20		43	D	rises
20	S	3 Sunday in Lent. <i>Benedict</i>	56			4		19	7	a 3
21			54			6	0	n 4	8	5
22	M		52			8		28	10	1
23	Tu		50			10		52	11	3
24	W	Annunciation: or Lady Day	48			12	1	15	morn	
25	Th		46			14		39	0	5
26	F		44			16	2	2	2	
27	S	4th or Midlent Sunday	42			18		26	3	
28			40			20		49	3	5
29	M		39			21	3	13	4	1
30	Tu		37			23		36	4	3
31	W		36			25		59	4	5

Days	L. of D.		Day Inc.		D. breaks		Tw. ends		Sun East	Cl. bef. S.		7 S
1	10	52	3	8	4	43	7	17	5	36	12' 45"	4
6	11	12		28		32		28		42	11 41	
11		32		48		21		39		48	10 25	
16		52	4	8		11		49		55	9 1	3
21	12	12		28		0	8	0	6	1	7 31	
26		32		48	3	48		12		7	5 58	

New Moon, 2d, 15m. past 3 altern.  
 First Quarter, 9th, 25m. past 12 night.  
 Full Moon, 18th, 35m. past 2 morn.  
 Last Quarter, 25th, 45m. past 5 morn.

Sun enters 8  
 zod. 8h. 15m.

1	Th		5	33	6	27	4n23	5 m 8	28
2	F			31		29	4	D fets	N
3	S	<i>Richard</i>		29		31	5 9	8 a 8	1
4	C	5 Sunday in Lent. <i>Ambrose</i>		27		33	32	9 35	2
5	M			25		35	55	1 0	3
6	Tu	<i>Old Lady Day</i>		23		37	6 17	morn	4
7	W			21		39	40	0 19	5
8	Th			19		41	7 3	1 24	6
9	F	<i>Cam. Ter. ends</i>		17		43	25	2 15	7
10	S	<i>Orf. Term ends</i>		15		45	41	2 52	8
11	C	6th, or Palm Sunday		13		47	8 9	3 17	9
12	M			11		49	37	3 36	10
13	Tu			9		51	53	3 50	11
14	W			7		53	9 15	4 1	12
15	Th	<i>Maundy Thursday</i>		5		55	37	4 12	13
16	F	<i>Good Friday</i>		4		56	58	4 22	14
17	S			2		58	10 19	4 33	15
18	C	<i>Easter Day</i>		0	7	C	4c	D rises	F
19	M	<i>Easter Monday</i>	<i>Alphege</i>	4	58	2	11 1	9 a 25	17
20	Tu	<i>Easter Tuesday</i>		56		4	22	10 50	18
21	W			54		6	45	morn	19
22	Th			52		8	12 3	0 9	20
23	F	<i>St. George</i>		50		10	23	1 12	21
24	S	[ <i>Mary born</i> ]		49		11	43	1 57	22
25	C	<i>Low Sun: St. Mark: Prs.</i>		47		13	13 3	2 28	23
26	M			45		15	22	2 50	24
27	Tu			43		17	42	3 7	25
28	W	<i>Orf. &amp; Cr. Term begin</i>		41		19	14 1	3 21	26
29	Th			40		20	20	3 33	27
30	F			38		22	38	3 46	28

Days	L. of D.	Day Inc.	D. breaks	Fw. ends	Sun East	Cl. bef. S.	7 Stars So.
1	12 54	5 10	3 32	8 28	6 15	4 7	2 2 50
6	13 14	30	20	40	21	2 37	32
11	34	50	7	53	27	1 12	13
16	52	6 8	2 58	9 7	33	0 a 7	1 55
21	14 12	28	39	21	39	1 17	36
26	30	46	23	37	44	2 16	17

New Moon 2d, 43m. past 1 morn.  
 First Quarter, 9th, 57m. past 6 aftern.  
 Full Moon, 17th, 37m. past 2 aftern.  
 Last Quarter, 24th, 56m. past 10 morn.  
 New Moon, 31st, 43m. past 12 noon.

Sun enters  $\Pi$   
 21d. 8h. 47m.

1	S	St. Philip and St. James	4	36	7	24	14 <sup>n</sup>	57	3 m	9	29
2	C	2 Sunday after Easter		34		26	15	15	D sets		N
3	M	Invention of the Cross		33		27		33	9 a	56	1
4	Tu			31		29	50	11	14		2
5	W	Easter Term begins		29		31	16	8	morn		3
6	Th	John Ev. ante Port. Lat.		27		33		25	0	11	4
7	F			26		34		42	0	55	5
8	S			24		36		58	1	24	6
9	C	3 Sunday after Easter		23		37	17	14	1	44	7
10	M			21		39		30	2	0	8
11	Tu			19		41		46	2	13	9
12	W			18		42	18	1	2	24	10
13	Th	Old Mayday		16		44		17	2	34	11
14	F			15		45		31	2	43	12
15	S			13		47		46	2	55	13
16	C	4 Sunday after Easter		12		48	19	0	3	9	14
17	M	Princess of Wales b. 1768		10		50		14	D rises		F
18	Tu			9		51		27	9 a	54	16
19	W	Queen Charlotte bo. 1744		8		52		41	11	3	17
20	Th	[Dunstan]		6		54		53	11	57	18
21	F			5		55	20	6	morn		19
22	S	Prs. Elisabeth born 1770		4		56		18	0	32	20
23	C	5th or Rogation Sunday		2		58		30	0	57	21
24	M			1		59		41	1	14	22
25	Tu			0	8	0		53	1	29	23
26	W	Augustin 1st Abp. of Can.	3	59		1	21	3	1	40	24
27	Th	Ascension: Holy Thursday		58		2		14	1	53	25
28	F	[Vene. Bede]		57		3		24	2	7	26
29	S	King Charles II restored		55		5		33	2	21	27
30	C	Sunday after Ascension		54		6		43	2	41	28
31	M	Easter Term ends		53		7		52	D sets		N

Days	L. of D.	Day Inc.	D. breaks	Tw. ends	Sun East	Cl. aft. S.	7 Stars Sc
1	14 48	7 4	2 7	9 55	6 50	3' 2"	0 a 58
6	15 6	22	1 50	10 12	55	35	39
11	22	38	30	32	7 0	54	20
16	36	52	6	57	4	59	11 m 0
21	50	8 6	0 30	11 40	8	50	41
26	16 2	18	No real Night		12	27	21

First Quarter, 8th, 48m. past 12 noon.  
 Full Moon, 15th, 50m. past 11 night.  
 Last Quarter, 22d, 1m. past 4 aftern.  
 New Moon, 30th, 2m. bef. 1 morn.

Sun enters  $\alpha$   
 21d. 17h. 27m.

1	Th	Nicoméde	3	52	8	8	22	n	0	9	a	59	1
2	W			52		8			8	10	48	2	
3	Th	Orf. Te. e. Cam T. di. m.		51		9			16	11	22	3	
4	F	King Geo. III. b. Boniface		50		10			24	11	45	4	
5	S	Duke of Cum. b.		49		11			31		morn	5	
6	C	Whit-Sunday		48		12			3	0	3	6	
7	M	Whit-Monday		48		12			43	0	16	7	
8	Tu	Whit-Tuesday		47		13			49	0	28	8	
9	W	Ember Week		46		14			55	0	38	9	
10	Th			46		14	23	C	0	0	48	10	
11	F	St. Barnabas		45		15			4	0	58	11	
12	S			45		15			8	1	10	12	
13	C	Trinity Sunday		44		16			12	1	26	13	
14	M			44		16			16	1	47	14	
15	Tu			44		16			19	D	rises	F	
16	W	Ort. Term begins		44		16			21	9	a	46	16
17	Th	Alban: Corpus Christi		43		17			23	10	29	17	
18	F	Trinity Term begins							25	10	57	18	
19	S								26	11	15	19	
20	C	1 Sunday after Trinity							27	11	32	20	
21	M	Long. Day [Tr. L. K. W. S.]							28	11	44	21	
22	Tu								28	11	56	22	
23	W								28		morn	23	
24	Th	Nativity of St. John Baptist							27	0	8	24	
25	F	[Mid. Day]		43		17			26	0	22	25	
26	S			44		16			24	0	40	26	
27	C	2 Sunday after Trinity		44		16			22	1	5	27	
28	M			44		16			20	1	38	28	
29	Tu			45		15			17	2	24	29	
30	W	St. Peter		45		15			14	D.	fets	N	

Longest Day at Lond.

is 16h. 34m. 4sec.

allowing 9m. 16sec.

for refraction.

Days	L. of D.	Day Int.	D. breaks	Tw. ends	Sun East	Cl. aft. S.	7 Stars So.	
1	16	16	8	32	7	16	2' 43"	10m 56
6		24		40		18	1 54	36
11		30		46		19	0 58	16
16		32		48		20	bc. 3	9 55
21		34		50		20	1 7	34
26		32	odec. 2			20	2 12	14

No real night, but  
 constant day  
 or twilight.

First Quarter, 8th, 57m. past 4 morn.

Full Moon, 15th, 28m. past 7 morn.

Last Quarter, 21st, 22m. past 10 night

New Moon, 29th, 4m. past 3 aftern.

Sun enters ♋  
23d. 4h. 47m.

1	Th		3	46	8	14	23	10	9	43	1
2	F	Visitation V. M.	46			14		6	10		2
3	S	Dog Days begin	47			13		2	10	18	3
4	C	Sunday after Trinity	47			13	22	57	10	29	4
5	M	[Transf. of St. Martin]	48			12		52	10	39	5
6	Tu	Cam. Com. Old Midf. day	49			11		46	10	48	6
7	W	Trin. T. e. Thomas à Bec.	49			11		40	10	57	7
8	Th		50			10		34	11	9	8
9	F	Cam. Term ends	51			9		27	11	24	9
10	S		52			8		20	11	43	10
11	C	Sunday after Trinity	53			7		12	morn.		11
12	M	Oxford Act	54			6		4	0	10	12
13	Tu		55			5	21	56	0	52	13
14	W		56			4		4	1	53	14
15	Th	Swithin	57			3		38	D rises		F
16	F		58			2		29	9	11	16
17	S	Oxf. Term ends	59			1		19	9	32	17
18	C	Sunday after Trinity	4	C	C				9	46	18
19	M		1	7	50	20		58	9	59	19
20	Tu	Margaret	3		58			47	10	10	20
21	W		4		5			36	10	20	21
22	Th	Mary Magdalen	5		55			25	10	4	22
23	F		7		53			13	11	4	23
24	S		8		52			0	11	34	24
25	C	Sun. af. Trin. St. James	9		51	19		48	morn		25
26	M	Anne	11		49			35	0	1	26
27	T		12		48			22	1	11	27
28	W		14		46			8	2	17	28
29	Th		15		45	18		54	D sets		N
30	F		17		43			40	8	22	1
31	S		18		42			25	8	34	2

Days	L. of D.	Day dec.	D. breaks	Tw. ends	Sun East	Cl. bef. S.	Stars So.
1	16 28	0 6			7 19	3 13	8 m 53
6	22	12			18	4 9	33
11	14	20	No real Night		16	5 56	12
16	4	30			13	5 31	7 52
21	15 52	42			9	54	32
26	38	0 6	0 48	11 8	5	6 4	12



First Quarter, 6th, 55m. past 6 aftern.  
 Full Moon. 13th, 48m. past 2 aftern.  
 Last Quarter, 20th, 14m. past 7 morn.  
 New Moon, 28th, om. past 7 morn.

Sun enters  $\pi$   
 23d. 10h. 39m.

1	C	7 Sunday after Trinity	4	20	7	40	18	10	8	2	45	3
2	M	[Lammas Day]		21		39	17	55	8	56		4
3	Tu			23		37		40	9	5		5
4	W			24		36		24	9	15		6
5	Th			26		34		8	9	28		7
6	F	Transfiguration [Name of Je.		28		32	16	52	9	43		8
7	S	Prs. Amelia. born 1783		29		31		35	10	7		9
8	C	8 Sunday after Trinity		31		29		19	10	41		10
9	M			33		27		2	11	31		11
10	Tu	Laurence		35		25	15	44	morn			12
11	W	Duc. Brunf. b. Dog Da.e.		36		24		27	0	42		13
12	Th	Prince of Wales born 1762		38		22		9	2	13		14
13	F	Old Lammas Day		40		20	14	51	D rises		F	
14	S	[Assumption]		42		18		33	7	2	52	16
15	C	9 Sunday after Trinity		43		17		14	8	6		17
16	M	Duke of York born 1763		45		15	13	55	8	18		18
17	Tu			47		13		36	8	32		19
18	W			49		11		17	8	50		20
19	Th			50		10	12	58	9	10		21
20	F			52		8		38	9	39		22
21	S	Duke of Clarence b. 1765		54		6		18	10	17		23
22	C	10 Sunday after Trinity		56		4	11	58	11	8		24
23	M			58		2		38	morn			25
24	Tu	St. Bartholomew	5	0		0		18	0	11		26
25	W			2	6	58	10	57	1	23		27
26	Th			3		57		36	2	37		28
27	F			5		55		15	3	51		29
28	S	Augustine of H. ☉ ecl. inv.		7		53	9	54	D sets		N	
29	C	11 Sunday after Trinity		9		51		33	7	2		1
30	M	[J. Baptist beheaded]		11		49		12	7	18		2
31	Tu			13		47		8	50	7		29
												3

Days	L. of D.	Day dec.	D. breaks	Tw. ends	Sun East	Cl. bef. S.	7 Stars So.
1	15 20	1 14	1 23	10 36	7 0	5 57	6 m 48
6	4	30	43	15	6 55	38	29
11	14 48	46	2 1	9 57	50	4 57	10
16	30	2 4	18	40	45	4	5 51
21	12	22	34	25	39	2 59	32
26	13 54	40	47	10	34	1 43	14

First Quarter, 5th, 41m. past 6 morn.  
 Full Moon, 11th, 46m. past 10 night.  
 Last Quarter, 18th, 36m. past 7 aftern.  
 New Moon, 26th, 56m. past 11 night

Sun enters ♈  
 23d. 7h. 8m.

1	W	Giles	5	15	6	45	8	29	7	2	42	4
2	Th	London burnt 1666		17		43		7	7	55		5
3	F			19		41	7	45	8	15		6
4	S			21		39		23	8	44		7
5	C	12 Sunday after Trinity		23		37		1	9	25		8
6	M			24		36	6	38	10	26		9
7	Tu	Enurcbus		26		34		16	11	49		10
8	W	Nativity of the V. M.		28		32	5	53	morn			11
9	Th			30		30		31	1	18		12
10	F			32		28		8	2	53		13
11	S	D eclipsed visible		34		26	4	45	D rises	F		
12	C	13 Sunday after Trinity		36		24		22	6	32		15
13	M			38		22	3	59	6	46		16
14	Tu	Holy-Cross		40		20		36	7	2		17
15	W	Ember Week		42		18		13	7	22		18
16	Th			44		16	2	50	7	46		19
17	F	Lambert		46		14		27	8	22		20
18	S			48		12		4	9	10		21
19	C	14 Sunday after Trinity		50		10	1	40	10	10		22
20	M			52		8		17	11	20		23
21	Tu	St. Matthew		54		6	0	54	morn			24
22	W	King Geo. III. crowned		56		4		30	0	34		25
23	Th			58		2		7	1	48		26
24	F		6	0		0	0	16	3	1		27
25	S			2	5	58		40	4	12		28
26	C	15 Sunday after Trinity		3		57	1	3	D. sets	N		
27	M	[Cyprian: O. Holy Rood]		5		55		27	5	47		1
28	Tu			7		53		50	6	0		2
29	W	St. Michael. Dus. Wirt. b.		9		51	2	14	6	13		3
30	Tu	Jerome		11		49		37	6	31		4

Days	L. of D.	Day dec.	D. breaks	Tw. ends	Sun East	Cl. aft. S.	7 Stars So.
1	13 30	3 4	3 6	8 53	6 27	0 2	4 m 52
6	12	22	20	39	21	1 37	34
11	12 52	42	33	25	14	3 19	16
16	32	4 2	44	15	8	5 4	3 58
21	12	22	55	4	2	6 49	41
26	11 54	40	4 6	7 52	5 56	8 32	23

First Quarter, 4th, 36m. past 4 aftern.  
 Full Moon, 11th, 58m. past 7 morn.  
 Last Quarter, 18th, 56m. past 11 morn.  
 New Moon, 26<sup>th</sup>, 34m. past 4 aftern.

Sun enters  $\eta$   
 23d. 15h. 8m.

1	F	<i>Remigius</i>	6	13	5	47	3	s	0	6	a	56	5
2	S			15		45		24	7		32	6	
3	C	16 Sunday after Trinity		17		43		47	8		26	7	
4	M			19		41	4	1c	9		37	8	
5	Tu			21		39		34	11		1	9	
6	W	<i>Faith</i>		23		37		57	morn			10	
7	Th			25		35	5	20	0		32	11	
8	F			27		33		43	2		4	12	
9	S	<i>Denys</i> [Ort. & Ca. T.b.]		29		31	6	6	3		39	13	
10	C	17 Sunday after Trinity		31		29		29	5		2	14	
11	M	Old Michaelmas Day		33		27		51	D rises		F		
12	Tu			35		25	7	14	5	a	32	16	
13	W	<i>Trans. K. Edw. Con.</i>		37		23		37	5		55	17	
14	Th			39		21		59	6		26	18	
15	F			41		19	8	22	7		9	19	
16	S			43		17		44	8		7	20	
17	C	18 Sunday after Trinity <sup>[Esteldrea]</sup>		44		16	9	6	9		14	21	
18	M	St. Luke		46		14		28	10		28	22	
19	Tu			48		12		50	11		41	23	
20	W			50		10	10	11	morn			24	
21	Th			52		8		33	0		54	25	
22	F			54		6		55	2		6	26	
23	S			56		4	11	16	3		16	27	
24	C	19 Sunday after Trinity		58		2		37	4		27	28	
25	M	K. Geo. 3 acces. <i>Crispin</i>	7	0		c		58	5		39	29	
26	Tu	King George III. proclam.		2	4	58	12	19	D sets		N		
27	W			3		58		39	4	a	43	1	
28	Th	St. Simon and Jude		5		57		59	5		7	2	
29	F			7		55	13	20	5		40	3	
30	S			9		51		39	6		28	4	
31	C	20 Sunday after Trinity		11		49		59	7		33	5	

Days	L. of D.	Day dec.	D. breaks	Tw. ends	Sun East	Cl. aft. S.	7 Stars So.
1	11	34	5 0	4 18	7 42	5 50	10 10'
6		14	20	29	31	44	11 42
11	10	54	40	39	21	37	13 4
16		34	0	49	11	31	14 15
21		16	18	58	1	25	15 11
26	9	56	38	7	6 52	10	50
							30

First Quarter,	3d, 11m. past	1 morn.	Sun enters ♄ 22d. 11h. 25m.
Full Moon,	9th, 47m. past	6 even.	
Last Quarter,	17th, 48m. past	7 morn.	
New Moon,	25th, 55m. past	7 morn.	

1 M	All Saints	7	13	4	47	14s	19	8 a	54	6
2 Tu	Duke of Kent b. <i>All Soul.</i>	14	46	38	10	19				7
3 W	Prs. Sophia born 1777	16	44	57	11	48				8
4 Th	King William landed	18	42	15	16	morn				9
5 F	Powder Plot. 1605	20	40	34	1	16				10
6 S	<i>Leonard.</i> Mich. Term b.	21	39	53	2	43				11
7 C	21 Sunday after Trinity	23	37	16	11	4	10			12
8 M	Prs. Aug. Sophia b. 1768	25	35	28	5	37				13
9 Tu	Lord Mayor's Day at Lon.	26	34	46						F
10 W		28	32	17	3	4 a	24			15
11 Th	<i>Martin</i>	30	30	20	5	0				16
12 F	<i>Cambr. Term divides morn.</i>	32	28	36	5	54				17
13 S	<i>Britius</i>	33	27	53	6	59				18
14 C	22 Sunday after Trinity	35	25	18	9	8	11			19
15 M	<i>Machutus</i>	36	24	24	9	25				20
16 Tu		38	22	30	10	40				21
17 W	<i>Hugh Bp. of Lincoln</i>	39	21	54	11	51				22
18 Th		41	19	19	9	morn				23
19 F		42	18	23	1	0				24
20 S	<i>Edmund K. and mart.</i>	44	16	37	2	11				25
21 C	23 Sunday after Trinity	45	15	51	3	21				26
22 M	<i>Cecilia</i>	46	14	20	4	33				27
23 Tu	<i>Clement: Old Mart. day</i>	48	12	17	5	49				28
24 W		49	11	30	7	8				29
25 Th	Duke of Gloucester born	50	10	42						N
26 F	<i>Calherine</i>	52	8	53	4 a	17				1
27 S		53	7	21	5	5	15			2
28 C	Advent Sunday: Mic. T. e.	54	6	16	6	36				3
29 M		55	5	26	8	2				4
30 Tu	St. Andrew	56	4	36	9	31				5

Days	L. of D.	Day dec.	D. breaks	Tw. ends	Sun East	Cl. aft. S.	7 Stars. So.
1	9 34	7 0	5 17	6 43	5 13	16' 13'	1 m 9
6	18	16	23	37	7	11	0 49
11	0	34	30	30	2	15 48	29
16	8 44	50	36	24	4 57	5	8
21	30	4	42	18	43	13 59	11 a 43
26	16	18	48	12	40	12 34	22

First Quarter, 2d, 4m. past 9 morn.  
 Full Moon, 9th, 4om. past 7 morn.  
 Last Quarter, 17th, 33m. past 5 morn.  
 New Moon, 24th, 4om. past 9 night.  
 First Quarter, 31st, 3m. past 5 ev'ns

Sun enters  $\Psi$   
 21d. 23h. 51m.

1	W		7	57	4	3	21	46	10	a	57	6
2	Th			58		2		55		morn		7
3	F			59		1	22	4	0	21		8
4	S		8	0		0		43	1	43		9
5	C	2 Sunday in Advent			3	59		21	3			10
6	M	Nicholas		2		5		28	4	36		11
7	Tu			3		57		36	6	3		12
8	W	Conception of V. Mary		3		57		42	7	26		13
9	Th			4		56		48		D rises	F	
10	F			4		56		54	4	a	30	15
11	S			5		55	23	0	5	40		16
12	C	3 Sunday in Advent		6		54		5	6	56		17
13	M	Lucy		6		54		9	8	10		18
14	Tu			6		54		13	9	25		19
15	W	Ember Week		7		53		16	10	35		20
16	Th	Sam. T. e. O. Sapientia		7		53		20	11	44		21
17	F	Orf. Term ends		7		53		22		morn		22
18	S			8		52		24	0	54		23
19	C	4 Sunday in Advent						26	2			24
20	M							27	3	17		25
21	Tu	St. Thomas: Shortest Day						28	4	34		26
22	W							28	5	53		27
23	Th							28	7	12		28
24	F							27		D sets	N	
25	S	Christmas Day						26	3	a	56	1
26	C	1 S. af. Chri: St. Stephen		7		53		24	5	30		2
27	M	St. John, Ev.		7		53		22	7			3
28	Tu	Innocents		7		53		19	8	30		4
29	W			6		54		16	9	57		5
30	Th			6		54		13	11	22		6
31	F	Silvester		5		55		9		morn		7

Shortest Day at Lond.

is 7h. 44m. 17sec.

allowing 9m. 5sec.  
for refraction.

Days	L. of D.	Day dec.	D. breaks	Tw. ends	Sun East	Cl. aft. S.	17 Stars Se
1	8 6	8 28	5 54	6 6	4 46	10 30	11 a 1
6	7 56	38	57	3	43	8 50	10 30
11	50	44	59	1	41	6 37	17
16	46	48	0	0	40	4 15	9 55
21	44	50	1	5 59	40	1 46	33
26	46	o inc. 2	0	6 0	40	ob. 45	11

# N<sup>o</sup> 99. Chronological Notes, Eclipses, &c. 15

## CHRONOLOGICAL NOTES, &c. in 1802.

Dominical Letter	C	Roman Indiction	5	Easter Day	April 18
Golden Number	17	Septuage. Sun.	Feb. 14	Ascension Day	May 27
Epact	26	Shrove Sunday	Feb. 28	Whit-Sunday	June 6
Cycle of the Sun.	19	Lent begins	Mar. 3	Advent-Sun.	Nov. 28

## ECLIPSES, &c.

**T**HERE will be four eclipses this year, two of the Sun, and two of the Moon; but only one of each will be visible in these parts.

I. MARCH 4, the Sun is eclipsed, invisible, at 4h 55m morning.

II. MARCH 19, the Moon is eclipsed, invisible. Begins 9h 50m morn. Ends at 23m afternoon. Digits eclipsed 5° 16'. north side.

III. AUG. 28, the Sun is eclipsed, partly-visible. Sun rises eclipsed at 5h 7m. The eclipse ends at 6h 13m. morn. Digits ecl. 4° 44' north side.

IV. SEPT. 11, the Moon is eclipsed, visible. Begins 9h 14m aftern. Middle 10h 39m. Ends 12h 5m night. Digits eclipsed 9° 12', south side.

VENUS is a morning star till March 17; then an evening star to the end.

JUPITER is an evening star till Sept. 9; then a morning star to the end.

## ANSWERS to the ENIGMAS.

1 Laughrer	7 Lime	<i>Supplement Enigmas.</i>	
2 A Worm	8 Woman	1 Enigma	5 Knife
3 The Senses	9 A Horn	2 Place	6 Trap
4 A Box	10 Fear	3 Wooden Leg	7 Hope
5 Fortune	Pr. Ivy.	4 Ink	Pr. Marble
6 A Hand			

## Answers to the Prize Enigma.

1. *By Mr. John Brookbank, Leicester Square, London.*

Once more, dear Smart, the mule to you;	That all who read your lines, confess,
Her tribute pays,—it is your due;	Not Pope surpasses you in verse.—
For unto you, blest bard! belong	Long may the laurel grace your brow,
Such harmony, and power of song,	That does from your own Ivy grow.

2. *By Mr. John Coben, of Amsterdam.*

May Dia's friends in numbers throng,	She, like the oak, bloom ages long,
To bend before her sacred shrine;	And they, like Ivy, round her twine.

3. *By Miss Eliza Maggs, of Cheltenham.*

May he I love, as constant prove,	Then shall his wife ne'er plague his life,
As Ivy to the oak;	Nor yet his rage provoke.

4. *By Mr. W. H. Mapre.*

Behold the Ivy round yon tree,	An emblem true of constancy;
Protecting and protected:	Long may it be respected.

5. *By Miss Albertinah Notrad, Tottenham High Cross.*

Whene'er I wed, I do intend,	To imitate the Ivy green,
Indeed, it is no joke,	That close entwines the oak.

6. *By Mrs. Mary Riches, of Diss, Norfolk.*

Your seeming tale of faithful love,	When undisguis'd, these loves of thine,
I've read, good Mister Smart;	Are not like genuine joy;
The tender heart it well might move,	For, Ivy-like, they creep, they twine
'Tis told with so much art.	And clasp, but to destroy.

7. *Clara's Death: by Mr. John Rimmer, Liverpool.*

View yon oak ascending high,  
View its branches spreading wide;  
View the cleft its trunk sustain'd,  
When, by lightning Clara died.

Blasted by th' electric flash,  
See the Ivy now decay'd!  
Here a refuge from the storm  
Clara sought beneath its shade.

Lovely Clara! dear to all!  
But to Strephon still more dear,  
Had confess'd a mutual flame,  
Fix'd in truth and love sincere.

Think the oak, severely rent,  
Mourns its Ivy's quick decay;  
So is Strephon's bosom torn,  
And for Clara pines away.

8. *By the Rev. T. S. Rector of Ormside.*

Old Darby and Joan,  
By wedlock made one,  
Together stuck close to the yoke;

In still clo'er hugg;  
Embracing so snug.  
The Ivy encircles the oak.

9. *By Mr. Robert Sanderfon, of Coventry.*

Indeed, my friend Smart,  
You've put, with great art,  
The mystical dress on the Ivy:

But I've found it, my lad,  
So let us be glad,  
Sing tantararara tantivy.

10. *By Miss Clarissa Sidney.*

The laurel wreath, and oak-n bough,  
Friend Smart, well-pleas'd, resigns;

And round his unambitious brow,  
An Ivy chaplet twines.

11. *By Miss Eliza Still.*

My love declares, he loves me well,  
Vows in his heart I bear the hell,

And that he will as constant be,  
As Ivy round the huge oak tree.

12. *The Wish: By Miss Wood, of Liverpool.*

May I, if e'er the lot be mine,  
In wedlock with some swain to join,  
Like Ivy constant prove:

And when we are together join'd,  
May we be to each other kind,  
And live in peace and love.

13. *To Mr. T. Rimmer: by Miss Eliza Wright, Flaxton.*

O Rimmer, I enjoy my lot  
My rural shades, and homely cot,  
And Ivy-mantl'd towers;  
More than I should a married state,  
To live in pomp among the great,  
And waste my ev'ning hours.

Therefore, tho' you have sung my praise,  
In humble suit and pleasing lays,  
I yet must you deny;  
Till I some more do from you hear,  
And that I hope will be next year;  
So now, dear R, good bye.

Other separate and ingenious answers to the Prize Enigma, beside those inserted in the Supplement, were given by the following ladies and gentlemen: viz. Ann Appleton, T. E. Appleton, W. B. Wm. Baber, Tho. Baker, W. Baker, Peter Barlow, Tommy Barne, J. Bassett, J. Bayley, Wm. Butcherman, Calophibus, Wm. Clarke, Cleobulus, B. Cleypole, Conjux, Country Girl, Tho. Crosby, M. Dale, Wm. Danby, John Day, Davus, Peggy Dick, R. Dutton, Eliza, Geo. England, Euphrosine, Rev. W. F. P. L. F., J. Farrow, Jas. Ford, Wm. Francis, Mrs. Furness, S. G. Hen. Gaskell, A. Gibbs, Tho. Gill, Wm. Goss, J. Green, O. G. Gregory, Rev. J. H. Rd. Hulliloy, G. Harley, Kabrad Hefez, Tho. Haynes, J. Jackson, Index, G. H. Ifitt, Cha. Lambert, Tho. Laus, Da. Lewis, T. Linley, Neofrensis, Oedipus, T. Partridge, Geo. Perrott, Philagathus, Geo. Raynes, Ben. Richardson, Da. Roberts, Alex. Rowe, J. Savage, Rd. Savage, F. Seotney, Serena, R. Shield, Kitt Shert, Wm. Singleton, John Smith, Master Smith, Wm. Smith, M. Smith, jun. Tho. Squire, Wm. Stevens, Rob. Surtees, Henry Swift, Miss A. T., Telemachus, Wm. Thomas, John Tindale, Cha. Tiver, n. Tiver, M. Tweddell, Ja. Waddell, Wm. Watkins, Mary Wall, T. Weedon, K. White, T. Wigley, William, Rd. Williams, W. Wood, a Youth.

## GENERAL ANSWERS to the ENIGMAS.

1. *On War and Peace : by Mr. R. Dutton, Kingsley.*

War, thou source of human woe,  
When wilt thou thy rage forego,  
Fears to raise, or hopes to blast;  
*Fortune's Hand* must guide at last.  
Shall we humble Gallic pride?  
Sense says, chance must still decide;  
Hope, like bird-lime's, but a lure,

While the *Worm* within is sure;  
Peace, fair goddess, grant once more,  
To *Britannia's* fertile shore;  
Cots would palaces be found,  
*Box* and *Ivy* twining round,  
Peasants each would be a king,  
Dance a *Hornpipe*, laugh and sing.

2. *To the British Fair : by Mrs. H. of London.*

Ye youthful fair, that grace *Britannia's* isle,  
While love and rapture wait on ev'ry smile,  
Think ye; how soon the period of decay?  
Love spreads his wings, and beauty fades away?  
May the firm truth your due attention find,  
And turn your thoughts to cultivate the mind;  
Let that be fair, and blooming as the cheek,  
And sparkling eyes each genuine virtue speak,  
Nor deem so much, the all-important part,  
To charm the *Senses*, as improve the heart.

3

As, ere the farmer strews with lib'ral *Hand*  
The grain, he'll till and fertilize the land,  
With glowing *Lime* protect the tender seed  
From the destroying *Worm*, or noisome weed;  
So should ye strive to guard your tender hearts,  
From trifling passions, and capricious arts.

6

7

8

'Tis oft contested, and decide who can,  
If female talents e'er can equal man;  
Then let, ye fair, the doubt no longer live,  
Assert your noblest, best prerogative.  
How many women have in ev'ry age  
The path of science trod, or brighten'd learning's page,  
And while the wreath of genius those have claim'd,  
How many have in arts or arms been fam'd,  
Since *Semiramis* led her legions forth,  
To far-fam'd *Cath'rine*, empress of the north.  
Yet would I sing in praise of arms? oh! no—  
Let softer hearts such hateful toils forego;  
Such proud achievements ne'er should be your boast,  
Nor, in the talents, be the virtues lost;  
Mark rather mild *Octavia's* spotless life,  
The *Gracchian* mother, or the th' heroic wife.  
If not interior, yet this point is clear,  
*Woman* should still preserve her proper sphere.  
Not yours, to guard the *Fortunes* of the state,  
Hold the free converse, or the loud debate,

8

5



'Tis not to fit the jovial board around,  
 With noise and *Laughter*, while the walls resound,  
*Fearless* to scour the plains at early morn,  
 Lead forth the pack, and rouse the echoing *Horn*;  
 Freely to man those rougher toils resign,  
 'Tis yours, in calm, domestic life to shine.

7  
 10  
 9

As some huge oak, pride of the woodland scene,  
 Spreads wide its umbrage of luxuriant green,  
 When comes stern winter, with rude cutting blast,  
 And on the ground the rustling foliage's cast,  
 Then the fond *Ivy* climbs the branches round,  
 And with unfading green its head is crown'd.  
 When *Flora's* charms no more delight the eye,  
 Yet, blooming see, beneath the wint'ry sky,  
 To grace the scene, the verdant laurels rise,  
 And shapely *Box*, with graceful myrtle vies.

11.

4

Then let, ye fair, true wisdom be your guide,  
 And her mild presence o'er your lives preside;  
 When youth and beauty fade, as fade they will,  
 Her blest endowments shall be left you still,  
 Though silver hairs your temples may entwine,  
 Wisdom and virtue shall for ever shine.

### 3. On Fortune: by Mr. Wilos Hoffman, Newcastle.

No longer *Fortune's* frown I *Fear*,  
 For she's at length turn'd kind,  
 And given me a prize last year,  
 To cheer my drooping mind.

I've call'd her oft a doating *dame*,  
 Bereft of fight and *Sense*,  
 Nay I have loaded her with blame,  
 And laugh'd at her expence,  
 When I a brother *Worm* have seen,  
 Of ev'ry comfort *shorn*,

And whom his virtues could not  
 From misery and scorn. [screen

Whilst to some saucy *box*, void of  
 To count his *fingers* right, [sense,  
 She does her glitt'ring boons dispense,  
 And sticks like birdlime tight.

But now, like all the pension'd tribe,  
 No more my tongue I'll move,  
 But be as constant, for the bribe,  
 As *Ivy*, or turtle-dove.

### 4. By Mrs. Blanch Lean, of Ludyvan:

*Who remarks, that Mr. R. may be assured, in answer to his letter, some time since sent, that Mrs. Lean is the same correspondent as formerly wrote under that signature, and before her marriage Miss Blanch Harris.*

Since *Diaria* in her famous page,  
 Does *Laughter* authorize,  
 Why shou'd the bookworm, or the sage,  
 E'er strive with a pedantic rage,  
 The same to scandalize.

Tho' reason, still the *Senses* sways,  
 Each has his different views;  
 The *Box* the owner's taste displays,  
 While *Fortune*, thro' her winding ways,  
 The selfish still pursues.

Down by an *Ivy*-mantled wood,  
Where ran a river clear,  
An antique mansion long had stood,  
Whose *Lime*-wash'd walls defid the  
For many a circling year. [flood,  
There dwelt a pair in social glee,  
Tho' different was their joy,  
With rural sports best pleas'd was he,

While to save money still wou'd she,  
Her *Hands* and time employ.  
Rous'd by the *Horn*, this rustic 'squire,  
Would early leave his bed,  
And to attain his hearts desire,  
*Fearless* would ride o'er bogs and mire,  
And chase poor pufs, till dead.

5. On *Fortune*: By Mrs. Sarah Porritt, *Whitby*.

This fav'rite is a fickle thing,  
Alluring with her tinsel toys;  
Can she the sweetest comfort bring?  
No, let us seek sublimer joys.

Ye, who the gaudy *dame* adore,  
Think not her lap is always down,  
For her bright smiles may soon be o'er,  
Once pamper'd *Worms* have felt her  
frown.

Oft in affliction's trying hour,  
Vainly have shone her splendid rays;  
What like an almighty power  
Can sooth and solace human cares.

When those dear sources cease to flow,  
From whence the joys of *Sense* we  
drew,

Remembrance but augments our woe,  
And plants a *thorn* where roses grew.

Tho' I alas! am doom'd to feel  
Direful misfortune's keenest dart,  
Yet there's a sov'reign *Hand* can  
heal

The wounds inflicted on my heart.  
Tho' far from his dear lov'd abode,  
Firm faith shall ev'ry doubt dismiss,  
On this obnoxious weary road,  
Anticipating future bliss.

O let me court those joys unseen,  
Where *pleasure* reigns without con-  
troul,

Celestial loves of *evergreen*,  
Fill and encircle all my soul.

If my dear saviour 'mong the just  
An heritage for me procure,  
Then *Fearless* I'll resign my dust,  
If this immortal spark's secure.

6. Mrs. Richardson to Mrs. Porritt.

Does my Sarah wake and weep,  
And Eliza careless sleep?  
Does fierce anguish tear thy breast,  
And thy lov'd Eliza rest?  
No,—my soul soon felt thy sigh:  
How shall I relief apply?  
Shall I bid the tuneful art,  
Probe afresh thy wounded heart?  
Rather let the rural song  
Lead thy mourning muse among  
Fields and valleys, full of flow'rs,  
Spreading *Limes* and *Ivy* bow'rs;  
Woodland shades, where echo dwells,  
While the tide of music swells;  
Where we rov'd thro' life's young hour,  
*Fearless* of false *Fortune*'s pow'r,  
Scenes that once could fire thy *Senses*,

Still hold out their soft pretences:  
*Smiling* spring with all her charms,  
Gently woos thee to her arms;  
Come, and hail again the may;  
Come, my fav'rite! come away:  
And, to aid returning joys,  
Bring with thee thy lovely *bays*,  
*Touch* them with poetic fire,  
*Strike* the sweet enchanting lyre;  
I'll lead on my *female* trio,  
(*Lisping* votaries of *Clio*),  
Bending at *Apollo*'s shrine,  
We'll fill the gales with strains divine,  
Till *Hilda*'s valleys ring with har-  
mony, [ecstasy,  
And earth and skies resound perennial  
The 2d Enig. *Worm*.—the 9th *Horn*.

7. *Conundrum's Tomb: by Mr. Rob. Richardson; to Mr. Giles Lacy.*

The breeze that swell'd the pulse of  
youth,

When vivid joy and simple truth  
Expanded nature's bloom,  
Gave us to greet the genial day,  
When *Farleis* that some future lay  
Shou'd mark Conundrum's tomb.

Conundrum! long-lost, fated bard!  
(Whose merits claim'd their own re-  
ward,

And brought our fancies home),  
We tho't not, in that joyous hour,  
That, bard with bard, in cypress bow'r,  
Should deck thy early tomb,

We deem'd, in that ambrosial scene,  
To skim, in thought, o'er traps be-  
tween,

(Deep hid in time's dark womb),  
And, whilst we danc'd in fancy's ray,  
Dream'd not, that one obtrusive day  
Would shew Conundrum's tomb!

*N. B. Enigma's not included are,*

But, now, the fated hour we see,  
When, bowing to the high decree,  
He finds his better home:  
Mourn, mourn, my Lacy! laurels  
bring,

With all the charms of nature's spring,  
To deck Conundrum's tomb.

He was fair fancy's first-born child;  
Erudite, *humorous*, and mild!—  
Bid all diarians come.

The fair, full-fraught, from blooming  
bow'rs,  
Shall bring their countless wreaths of  
flow'rs,

To deck Conundrum's tomb.

His genial shade, our labours viewing,  
The flow'ry paths of youth pursuing,  
In full diarian bloom,

Softly receding, sweet shall say,  
"Blest be the bard, and blest the day,  
That crowns Conundrum's tomb!"

*2d. Worm; 6th Hand; 7th Lime; 9th*

8. *On the 99th Number of the Diary: by Mr. John Rimmer.*

That heart must callous be indeed,  
Which feels no bliss, nor e'er did  
At beauty's potent shrine: [bleed  
Yet they who most her charms have  
known,

With deep concern, I *Fear*, must own,  
It fades ere ninety nine.

Tho' *Fortune*, with a lib'ral *Hand*,  
With plenty's *Horn*, at her command,  
Their richest gifts combine:  
Tho' fair *Hyæra* kindly *smile*,  
And true content the time beguile,  
Few live to ninety nine.

The general doom revers'd in thee,  
Dear Lady Di, with pride we see,  
Nor apprehend decline:

In spite of age, revolving time,  
With youthful graces decks thy prime,  
To charm at ninety nine.

More numerous each succeeding year,  
Thy ardent votaries appear,  
Promoting thy design:  
Displaying all the charms of rhyme,  
In sportive wit, or sense sublime,  
For thee at ninety nine.

With conscious pride the happy swain,  
Exults when he thy jocund train  
Permitted is to join:

No envy racks the *female* breast,  
To see thee thus by all caref'd,  
And lov'd at ninety nine.

To sister excellence no muse  
Her best assistance can refuse,  
Implor'd from lips divine:  
No wonder then the charming fair,  
The choicest laurel crown shou'd share  
With thee at ninety nine.

To worth like theirs, in ancient days,  
How wou'd the fragrant incense  
blaze!

And stately temples shine!  
Yet far more lasting is the fame,  
Acquired by each poetic *dame*,  
In Di at ninety nine:

Eubæa's god an *Ivy* wreath  
To his disciples may bequeath,  
And drown their cares in wine:  
Such *Sensual Worms*, to reason blind,  
No hidden treasures e'er will find  
In thee at ninety nine.

May glory, friendship, joy and health,  
And all the comforts found in wealth,  
Await pursuits like thine !

May truth and science more expand  
The human mind in ev'ry land,  
Nor fade at ninety nine.

9. *Ode to Laughter* : by Mr. Rob. Sanderfon.

God of the unscrew'd muscle, hail !  
Who lov'st to hear the merry tale,  
Thy warmest votary prays  
The tuneful Nine to aid the song,  
That, haply, may convey along  
Thy worth to distant days.  
But if, perchance, the jades refuse,  
As, now adays, they often chuse,  
Do thou the strain inspire ;  
Thy praise shall Fame then trumpet  
forth,  
From east to west, from south to  
north,  
High as the clouds, and higher.  
Thou art thyself free from deceit,  
But gravity's an arrant cheat,  
As laughing mortals tell ;  
I think them right, and I will add,  
Thou art to all whose health is bad,  
Th' elixir to get well.  
Where vapours and illnatur'd spleen,  
Where envy and her snakes are seen,  
Where malice keeps a rout ;

One grin from thee, if level'd well,  
Can drag each fury from her cell,  
And shove them all quite out.  
The miser, seated at the board,  
Where thou presid'st, forgets his hoard,  
And feels his heart expand ;  
Then shou'd he see a woe-worn wight,  
Fall'n from dame Fortune's dizzy  
height,  
He'd give at least—his Hand.  
Inspir'd by thee, full oft I hear,  
The skeleton yclep'd Dan Care,  
(Prowling for human prey)  
Swear, disappointed, that my phyz,  
Belongs not to a son of his,  
And grumbling sneak away.  
Then time, who shav'st each human  
sconce,  
Fix not, thou hungry elf, this once,  
On this thy rat-like pow'rs ;  
For know, by *Laughter's* self, that I  
Have learnt the secret to defy,  
Thy very worst of hours.

\* \* We beg pardon of this gentleman, for being under the necessity of short-  
ening the above ingenious answer, and of our readers for their loss for that un-  
avoidable omission. The same apology we trust will be kindly accepted by some other  
contributors, with whose compositions we have taken the like liberty.

10. *The Days of Yore* : by Mr. John Smith, Alton Park.

Ah, see ! beneath yon hill sublime,  
The vestige of an ancient hall,  
All shatter'd and decay'd by time,  
And Ivy clasps the mould'ring wall.  
Erewhile, in this lone, calm retreat,  
Whose mangled turrets strew the  
ground,  
The worthy master, and his mate,  
Diffus'd innum'rous blessings round.  
He kept his household ever gay,  
And oft amid the jovial choir,  
With flowing Horns wash'd care away,  
And *Laughter* echoed round the fire.  
His heart with joy wou'd oft expand,  
Whensom the Bow that held his store,

He, with unparing, lib'ral Hand,  
Dispens'd his bounties to the poor.  
Misfortune's child he strove to cheer,  
And sooth the sorrows of his breast ;  
And the benighted traveller  
Was ever made his welcome guest.  
And underneath his roof the bard  
(Fearless of winter's keenest blast,  
Found shelter, and his bounty shar'd,  
And joyously his moments pass'd.  
But now those happy times are gone,  
Ah me ! gone to return no more ;  
And luckless bards in vain may  
moan,  
For the departed days of yore.



Harley, J. Heaton, Tho. Heynes, Jos. Hindson, J. Houlgate, J. Jackson, J. Johnson, G. H. Isitt, Cha. Lambert, P. Leeming, Da. Lewis, J. Liddell, T. Linley, M. M., Anna Maria, Mary, Minimus, J. Mitchell, Mary Myton, Parthenia, J. Patrick, Lane, Pearson, Geo. Perrott, Cha. Purvis, Mrs. Reynolds, B. Richardson, Mary Riches, Da. Roberts, Alex. Rowe, J. Savage, Rd. Savage, F. Scotney, Kitt Short, J. Skewes, Isabella Smith, Spero, H. Swift, Wm. Thomas, J. Topham, Rd. Trewavas, Ja. Waddell, M. Tweddell, Wm. Watkins, Miss A. Wood, J. Collins, W. Wood, Cha. Wynne, &c.

**ANSWERS to the REBUSES and CHARADES.**

<i>Rebusti.</i>		<i>Charades.</i>	
<i>Diary.</i>	<i>Sup.</i>	<i>Diary.</i>	<i>Suppl.</i>
1 Sanderson	1 Level	1 Locket	1 Loadstone
2 Dronfield	2 Postilion	2 Rainbow	2 Gravestone
3 Glas	3 Young	3 Sunday	3 Poet
4 Bream	4 Craven	4 Shakespear	4 Football

**1. By Miss Betty Constantine, of Carlton, in Coverdale.**

<p>Could I compose like Sanderson, On rebus or charade, To write on Dronfield, Glas, or Bream, I'd never be afraid.</p>	<p>Or Locket for Belinda's breast, Who shines like Rainbow clear, Whene'er she goes, in Sunday dress, A Shakespear play to hear.</p>
---	--

**2. By Mr. Wm. Francis, Jun. of Maidenhead.**

<p>Oh! could my muse, with Shakespear's Like Sanderson attune the lyre, [fire, Or like the Dronfield bard; Whether the Locket or the Bream,</p>	<p>The Rainbow or the Glassy stream, Or Sunday claim'd regard; [appear, Each clad in lays majestic shou'd To charm the senses, or delight the ear.</p>
---	--

**3. By Mr. G. H. Isitt, of Stanion.**

<p>Friend Sanderson's harmonious lines As Glas reflects his art, Or like the beauteous Rainbow shines, As fancy deems it fit.</p>	<p>Shou'd Bream or Sunday claim his lays, He sings with such a gace, That he can mighty Shakespear praise, Or Dronfield's beauties trace.</p>
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**4. By Mr. Cha. Purvis, Newcastle.**

<p>While fots drown in a Brimful Glas Their conscience, care, and spleen, With Sanderson my time I'll pass, At Dronfield on the green. Each Sunday morning in the spring, When linnets crow'd the spray, Around my charmer's neck I'll cling, And with her Locket play.</p>	<p>And when the Rainbow's vari'd rays Show the approaching shower, We'll read old Shakespear's lofty plays, Beneath some shady bower. Thus days and years will sweetly glide Ungall'd by care or strife, Until young Anna is my bride, Then am I blest'd for life.</p>
---	--

**5. By Mr. John Rimmer, Liverpool.**

<p>With Sanderson at Dronfield, I An hour would gladly pass, And drink success to Lady Di, In an o'erflowing Glas.</p>	<p>Wou'd Fildes and Smart but meet us On Breams we wou'd not dine; [there, But strain a point for better cheer, And quaff inspiring wine.</p>
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11. *The Morning Walk : by Miss Eliza Still.*

Come, dearest Anna, let us rove  
In yon delightful pleasant grove ;  
How charming is this blushing morn,  
How bright the dew-drops on the  
thorn ;

Mark how the songsters sweetly sing,  
How all proclaim the chearful spring ;  
But puffs, alas ! in *Fear* must run,  
She dreads the *Horn*, the dog and gun,  
Dear Anna view that pretty cot,  
That snow-white house, delightful  
The little garden, *Box'd* so neat, [spot !  
O what a lovely, sweet retreat. [clean,  
The horse block wash'd with *Lime* so  
The steed stands by with graceful mien ;

The huge oak tree, with *ivy* bound,  
The *laughing* children frolic round ;  
They, *Hand* in hand, with rosy cheek,  
And healthy look, no *Worms* bespeak.  
Wou'd *Fortune* grant me what I please,  
'Twould be to dwell in scenes like these ;  
No higher thoughts shou'd intervene,  
To lure me from the peaceful scene.  
Come Anna, let us to yon mow,  
And drink some milk from that fine  
cow,

The *damsel* milking looks so neat,  
To take a draught will be a treat :  
Thus every *Sense* we shall regale,  
Then leave awhile this charming vale.

12. *Mr. W. W. Wardley, to Mr. Joseph Green, of Witney, Oxon.*

It were not strange if *Fortune* smil'd,  
On Ignorance, her darling child,  
Or solemn dulness, plac'd  
In pomp above the gaping throng ;  
And give such *honors*, as belong  
To you, ye sons of taste !

Did these not share her smiles alone ;  
If equal rays of kindness shone,  
(A charming warmth to lend)  
On *Worth*, or genius, but it's seen ;  
As well thou know'st, neglected  
Green !

That merit has no friend.

In study why then waste thy prime ?  
This moment seize ; for envious time,  
On fleetest pinions flies ;  
With flattery learn to sooth the ear,  
Swear black is white, and never *Fear*,  
But by such arts to rise.

A patron gain'd, be this thy plan,  
His actions and his temper scan,  
Till thou hast them by rote ;  
And as the bias of his mind  
Appears to this or that inclin'd,  
Put in thy casting vote.

But more than all be this thy aim,  
To give each vice a virtue's name :  
Let rapine, prudence be ;  
Be cruelty by justice known ;  
Av'rice—were better let alone,  
If it extend to thee.

Yet the grand secret of the trade,  
Is to seduce the artless *maid*,  
To meet his soul embrace !  
Adepts in this, it stands confess'd,  
Are lov'd, are honor'd, and caress'd,  
First of the servile race.

And yet wert thou to mix with those  
Mean sycophants, who by the nose  
Our titl'd great ones lead,  
And their misguided faith abuse,  
From thy acquaintance shou'd the  
muse  
Indignantly recede.

Go then, and tho' the trump of fame  
Shou'd never spread abroad thy name,  
Or rising worth attest,  
In arts and sciences excell,  
'Tis all thou canst, endeavour well,  
To fortune leave the rest.

*Other ingenious answers to the Enigmas, beside those inserted in the Supplement, were given by the following ladies and gentlemen, viz. Ann Appleton, J. Schekfield, Tho. Baker, P. Barlow, J. Bayley, J. Blokey, Wm. Butterman, Calophilus, J. Campbell, J. Cavill, J. Clarke, W. Clark, Betty Constantine, Coriander, Tho. Crosby, Mr. Dale, Wm. Danby, Dawns, John Day, W. Dixon, Geo. England, Euphrosine, I. F—w, J. Fildes, Ja. Ford, W. Francis, Mrs. Furness, S. G. Hen. Gaskell, Wm. Goss, Rev. I. H. Eliza Hands, G.*

Harley, J. Heaton, Tho. Heynes, Jos. Hindson, J. Houlgate, J. Jackson, J. Johnson, G. H. Isitt, Cba. Lambert, P. Leeming, Da. Lewis, J. Liddell, T. Linley, M. M., Anna Maria, Mary, Minimus, J. Mitchell, Mary Myton, Paribenia, J. Patrick, Lane, Pearson, Geo. Perrott, Cba. Purvis, Mrs. Reynolds, B. Richardson, Mary Riches, Da. Roberts, Alex. Rowe, J. Savage, Rd. Sawage, F. Scotney, Kitt Short, J. Skewes, Isabella Smith, Spero, H. Swift, Wm. Thomas, J. Toppam, Rd. Trowavas, Ja. Waddell, M. Tweddell, Wm. Walkings, Miss A. Wood, J. Collins, W. Wood, Cba. Wynne, &c.

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Whene'er she goes, in Sunday dress,  
A Shakespear play to hear.

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Like Sanderfon attune the lyre, [fire,  
Or like the Dronfield bard;  
Whether the Locket or the Bream,

The Rainbow or the Glassy stream,  
Or Sunday claim'd regard; [appear,  
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To charm the senses, or delight the ear.

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Their conscience, care, and spleen,  
With Sanderfon my time I'll pass,  
At Dronfield on the green.

Each Sunday morning in the spring,  
When linnets crow'd the spray,  
Around my charmer's neck I'll cling,  
And with her Locket play.

And when the Rainbow's vari'd rays  
Show the approaching shower,  
We'll read old Shakespear's lofty plays,  
Beneath some shady bower.

Thus days and years will sweetly glide  
Ungall'd by care or strife,  
Until young Anna is my bride,  
Then am I blest'd for life.

5. By Mr. John Rimmer, Liverpool.

With Sanderfon at Dronfield, I  
An hour would gladiy pass,  
And drink success to Laoy Di,  
In an o'erflowing Glafs.

Wou'd Fildes and Smart but meet us  
On Bream we wou'd not dine; [there,  
But strain a point for better cheer,  
And quaff inspiring wine.



To *Shakspear's* flame, the tribute due,  
By *Fildes* wou'd then be paid;  
Who'd not repine, with friends so  
If he till *Sunday* stay'd. [true,

The gravest bard cou'd not despise  
The *Locket* which *Bellinda* wears;  
Bedeckt in all the *Rainbow's* dyes,  
An emblem of her wit appears.

6. By the Rev. T. S., Rector of Omside.

At *Dronfield* once, but in a dream,  
I din'd with *Butterman* on *Bream*;  
And after drank, my heart to cheer,  
A *Glass* of *Sanderfon's* strong beer.

A *Locket*!—that is no charade,  
Rather a rebus should be made;  
But *Rainbow*, *Sunday*, sage *Shakspear*,  
Are charades manifest and clear.

7. To Fortune: by Mr. Robt. Sanderfon, Coventry.

Nos facimus Fortuna, deam. *Juvenal.*

Nay Fortune, now no more I'll rail,  
No more I'll vent th' ironic tale,  
Or blame thy wildest caper;  
Favours thou giv'st me, not a few,  
My thousands, and ten thousands too,  
Yearly I count—on paper.

Believe me serious, when I say,  
Thou' art not blessings of a day,  
Which thou bestow'st on me.  
I trowe, they prove to all mankind,  
Tho' thou thyself art reckon'd blind,  
Sans doute, that I can see.

That Justice still o'er thee presides,  
Thy hand impartially still guides,  
Who doubts, the vilest beast is;  
One act of thine, this clearly shews,  
Thou, from the tuneful train, hast  
Chaste *Atalanta*, priestess. [chuse,  
With *Shakspear's* muse, thy praise  
thou'd float,

Down time's long stream, to wights  
remote,

And *Sanderfon* wou'd tell 'em,  
Whene'er they see thy wond'rous  
worth,

From cold oblivion drag it forth,  
And write it plain on vellum.

*Glass*, *Dronfield*, *Locket*, I rehearse,  
Words, quite inimical to verse,  
With *Rainbow* in the rear;

Now Fortune, if thou hast the pow'r,  
Send words (they're cheap enough I'm  
sure)

More musical next year.

And, hark thee, goddess, send me too,  
Of neat, good tenpound notes, a few,  
And them, 'y flisk'ng lads!

If I refuse, do thou proclaim,  
That Fool be 'dovetail'd' to my name,  
And brand me dolt and afs.

8. The Happy Meeting: by Mr. T. R. Smart.

'Twas *Sunday* eve, when neatly dress'd,  
*Chloe*, with *Locket* on her breast,  
And ribbands *Rainbow* dy'd;  
(Ne'er shou'd the *Glass* a face more  
Trip'd out alone, to take the air, [(fair)  
Supreme in beauty's pride!

An object did her mind engage,  
'Twas *Sanderfon* with *Shakspear's*  
At distance saw the maid; [page,  
Not like a *Drove* the field he trode,  
But quickly met her on the road,  
And thus in raptures said;

'Dear girl, I wish'd, nor wish'd in vain,  
That I might meet you on the plain;  
Ah! why of late so shy?

Methinks you might your lover trust,  
A love more pure, a heart more just,  
No swain can boast than I.'

Then with a blush the nymph reply'd,  
'Dear *Sanderfon*, with conscious pride,  
Acknowldg'd and approv'd [known,  
Your worth, your virtues well are  
Full oft my tell tale eyes have shown,  
'Twas you alone I lov'd.'

The hours flew swift with swain and  
maid,  
Till ev'ning spread her darksome shade,  
In chat of that and this;

Then homeward hy'd the am'rous pair,  
Nor left the swain his darling fair,  
Till shar'd the balmy kiss.

9. By Miss A. Wood, of Liverpool.

Your worthy friend R. Sanderfon,  
Most modern bards excels;  
So does that well known poet, who  
In *Dronfield* villa dwells.

In your fam'd pages, ev'ry year,  
So sweetly flow their lays;  
That *Shakspeare*, were he living now,  
Their works would doubtless praise.

Could I like them a *Bream* describe,  
Or *Rainbow*, I declare,  
I freely wou'd my *Locket* give,  
That I on *Sundays* wear.

But it is quite unlikely, since  
I'm so unlearn'd a *luff*  
That what I so much wish to do,  
Will ever come to pass.

Other ingenious answers to the *Rebuses* and *Charades*, beside those inserted in the Supplement, were also given by the following ladies and gentlemen, viz. Ann Appleton, P. Barlow, J. Bayley, J. Blakey, J. Brooksbank, Calophilus, J. Campbell, J. Cavil, W. Clark, Tho. Crosby, M. Dale, Wm. Danby, Davies, J. Day, D. Dixon, R. Dutton, Edwin, Geo. England, Eschbrofyn, J. Erubunk, P. L. F, J. F—w, Ja. Ford, H. Gaskell, Tho. Gill, Wm. Goss, Eliz. Hand, J. Heaton, T. Heynes, J. Jackson, M. B. Jackson, Levisius, Blanch Lean, Da. Lewis, J. Liddell, T. Linley, Mury, J. Mitchell, Mary Upton, J. Patrick, G. Perrott, Sarah Porritt, G. Raynes, G. Renison, B. Richardson, Da. Roberts, Alex. Rowe, J. Savage, R. Savage, J. Scholfield, Kit Short, J. Skevons, Spero, J. W. Smith, Master Smith, Eliza Still, J. Topham, Rd. Trebarnes, M. Tweddell, J. Waddell, Wm. Watkins, T. Weedon, H. H. White, Rd. Williams, W. Wood, &c. T. Hewitt, J. Collins.

ANSWERS to the QUERIES.

QUERY, I. answered by the Rev. J. H. Northallerton.

As the rarefaction of the air in the atmosphere, and its consequent density below, are the immediate indication of a shower of rain, the insects always drop down into the denser air, by the inability of the upper air to support them; and the swallows must of course fly low, in order to procure them as food.

QUERY, II. answered, by Mr. W. Burdon, Acafter Malbis.

It is an established fact, that when bodies pass from a fluid to a solid state, sensible heat is generated by the elementary fire which is emitted. A quantity of the latent heat in the vaporific particles is expelled when they become flakes of snow, and so causing the warmth in the atmosphere.

QUERY III. answered by Davus.

From the anatomy of plants, it is pretty certain, that the flower, or fruit buds take their origin from the wood and pith, not from the epidermis and bark of the fruit trees. The effect of taking off the bark all around a branch must therefore be, to determine the nourishment to the wood and pith, and thereby increase the vigour of the fruit buds, and consequently the production of fruit.—Intercepting the circulation of sap by ligature with a wire, is found to have a similar effect.

QUERY IV. *Answered by Mr. Cha. Pritty, of Thornham.*

One great use is, to make bones stronger, without adding to their weight : for mechanists shew, that if a given substance be formed into a tube, instead of a solid cylinder, the strength is increased nearly in the proportion of the diameter. It is to be added too, that as the bone increases in size, the muscles act at a greater distance from the centre of motion, and consequently with greater force.

NEW ENIGMAS.

I. ENIGMA (843) *by Davus.*

<p>A slave I am, of frequent use, None can more varied gifts produce. I shield from wet the gadding fair ; From drowning save the pamper'd The mutilated soldier, I [hair ; With shapely leg do oft supply ; Bacchus, his soul-enliv'ning wine, Does to my foster'ing care consign ;</p>	<p>Intent the finny prey to catch, My motions eager anglers watch : No longer my assistance weak Do slender dames posterior seek ; Content to boast the forms assign'd, By nature to the parts behind. From each Diarian nymph and bard, My name may now claim some regard.</p>
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II. ENIGMA (844) *by Mr. John Day, of Sigglesthorpe.*

<p>Ye maids of Di, I pray attend, To me, who am your constant friend, Companion too you'll find ; For oft with you I'm known to dwell, In silver or in tortoiseshell, Superior of my kind. But not with you alone abide, With pedlars too I've wander'd wide, In different cloathing dress'd ; By land and sea I'm useful found, Such virtue doth in me abound, That I'm by all caref'd: Now, if you but divide my name, You'll have two things of ancient fame, Nor out of fashion now ;</p>	<p>By which ten thousands earn their bread, Yea, thousand thousands more are fed ; A truth well known to you. My first, one form and garb still wears ; My next, in dress and size appears In twenty different shapes ; My first, without my second's aid, Can never be completely made, Tho' some by calling apes. Sometimes my last in form has been An awful, ugly monster seen, Whose very sight will sting ; My whole, Di's friends, of either sex, With pleasure view, tho' so complex, I'm deem'd a pretty thing.</p>
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III. ENIGMA (845) *by Mr. Ra. Dutton, of Kingsley.*

<p>Ladies, behold in me a theme quite rare, I'm fickle as yourselves, almost as fair ; A friend or enemy you have in me, Save life or take it, as the case may be ; A blessing and a curse I'm often found, And most am wanted when I most abound ;</p>	<p>Smooth and uneven, also hot and cold, The gift of heav'n, tho' sometimes bought and sold : I'm hard, I'm soft, strong, weak, and thick or thin, Can carry tons, yet cannot bear a pin. To ev'ry traveller my aid I lend, The rich man's comfort, and the poor man's friend ; [this, Wedlock I can dissolve, and yet, mark Ladies, from you, I oft receive a kiss.</p>
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IV. ENIGMA (846) *by J. G.*

At beat of drum  
Behold I come,  
Clothed with terrific power;  
And often make  
The stoutest shake,  
In that tremendous hour.

Yet, ladies, pray  
Attend my lay,  
I'm still your favour'd guest;  
In softest strains  
Thrill thro' your veins,  
And soothe the tortur'd breast.

I'm short and long,  
Am weak and strong,  
As Proteus I am found;  
And tho' I rise  
To meet the skies,  
I dwell beneath the ground.

I'm high and low,  
Both quick and slow,  
Yet still evade the sight;  
Diarians fair,  
My name declare,  
My virtues bring to light.

V. ENIGMA (847) *by Mr. G. H. Ifit.*

Once more G. H. I.  
Sends a tribute to Di,  
And a tale wou'd relate to the fair;  
But an arrogant elf  
Has presum'd of himself,  
His talents and worth to declare.

In fam'd days of yore  
I was seen just before  
Old Adam, the father of man;  
Tho' I firmly believe  
No relation to Eve,  
For friendship 'tween us ne'er began.

I do mostly appear  
With a train in my rear,  
Yet here what I say you must mark;  
For it's well understood,  
I avoided the flood,  
And for safety crept into the ark.

And I, with each tar,  
Took a part in the war,  
When Nelson the laurels to gain,  
With a noble design  
Broke the enemy's line,  
And prov'd himself lord of the main.

Tho' sometimes I stray  
To ball, mask, or play,  
As I always fair ladies attend,  
And here, tho' you blame,  
I'm addicted to game,  
For gaming I'm known to befriend.

Yet oft with applause,  
I adhere to the laws,  
And still am attach'd to the state;  
Shou'd you now rend the vail,  
You'll perceive me in jail,  
Next in chains to be hung is my fate.

Or down in the grove,  
Midst the whispers of love,  
Damon's passion I help to impart;  
His tale thus display'd,  
Soon engages the maid,  
And Phillis yields me with her heart.

But I now must, I fear,  
Stop my headlong career,  
To check the loud trumpet of fame;  
So, I'll here lie perdue,  
Until found out by you, [name].  
Then in Di pray next year tell my

VI. ENIGMA (848) *by Mrs. Blanch Lean, Ludgvan, Feb. 4, 1801.*

Ye nymphs, in Dia fam'd for mystic song,  
Vouchsafe a tear for one who was your friend,  
And let reflection the sad scene prolong,  
For you, like me, will soon approach your end.

For, ah! my friends, it will not, will not last,  
The pleasing scenes of life will soon be o'er;  
So sung a plaintive bard in years now past,  
So sung the bard, — but ah! he'll sing no more.

And many a bard and hero I could name,  
Whose birth and rise and progress I have seen,  
I've seen them mount the zenith of their fame,  
I've seen 'When fate unfurl'd their parting scene.

I saw when Lady Dia first arose,  
Her infant riddles—tales of little worth;  
I saw her more mature, her charms disclose,  
And when, with learning fraught, she issu'd forth.

Ye, who in sanguinary scenes delight,  
Come view the list of my recorded crimes,  
Or turn your eyes averted from the sight,  
And pour your execrations on the times.

In me behold ill-fated royalty  
Led in sad triumph to the shades of death;  
No friend to save, (stain on humanity)  
Upon the block they yielded up their breath.

Treasons, rebellions, massacres and wars,  
Long in my annals have recorded stood;  
Yet, think not these are honourable scars,  
The paths to glory are not wet with blood.

But think not vice alone my page has stain'd;  
Virtue has been esteem'd as sov'reign balm;  
Religion's precepts have been well explain'd,  
And her true vot'ries will enjoy the palm.

Yet for the crimes which have been done in me,  
Mankind must answer at the gen'ral doom;  
While I, secure in my nonentity,  
Shall sleep thro' ages of eternal gloom.

Ah! what avails it, that I long have stood,  
'My race of glory's run, and race of shame;'—  
My years are join'd with years beyond the flood,  
And all that's left me, is an empty name.

In vain for help on mighty powers I call,  
No power could stop my time-sped rapid flight,  
December's latest hour proclaim'd my fall:  
I fled,—and sunk into impervious night.

VII. ENIGMA (849) by Mr. Tho. R. Smart, *Burton on the Wolds.*

Come, listen to your servant's strains,  
Ye pretty nymphs of Dia's plains,  
Let smiles display your dimples;  
I please you all, I boast with pride,  
The old, the young, or maid, or bride,  
Tho' simplest of the simples.

Form'd or study'd in the schools,  
Vers'd in mathematic rules,  
My maker or my vender;

You'll find, if try'd upon the scale,  
Globe to my head, a cone my tail,  
— My body a cylinder.

Hid with nice art from vulgar sight,  
Wrapt in a robe of lily white,  
You once might wrap yourself in;  
Susan oft brings me to your bed,  
Unfolds my covering, nips my head,  
And gives to you the elfin.

From thence, become your bosom  
friend,

With me each day what hours you  
spend ;

What pleasures take in viewing !  
Tho' cynic critics all supreme,  
Your chief employment with me lies,  
In doing and undoing.

In country, city, camp, or court,  
Where'er our charming belles resort,  
Where crouds admire their beauty ;

I help to form that shape and air ;  
The fairest bosom seems more fair,  
When well I do my duty.

Ah ! who wou'd think within that  
breast,

Ingratitude cou'd be a guest,  
For favours of this nature ?

Yet shou'd'st some wretch your anger  
dare,

Low as you hold me, you declare.  
You hold the worthless creature.

Small tho' I am, yet, from small  
things,

Good lord ! what wondrous hubbub  
springs,

Tho' senseless quite and stupid ;  
My name ere now at Hymen's porch,  
Has scar'd the god, put out his torch,  
And broke the shafts of Cupid.

I've said enough ; — the puzzle's o'er,  
My name from these you will explore ;

But shou'd you need another,  
Go ask young Roger, at his cart,  
He'll tell you I compose a part,  
At least my lusty brother.

### VIII. ENIGMA (850) by Mr. T. Weedon, Newbury.

When zephyrs bland, and smiling  
To wintry storms give way, [skies,  
And chilling rains and snowy clouds  
Obscure the face of day,

Then gentle maids to us ye fly,  
And clasp us round with care,  
Proud of our generous aid, tho' we  
As black as foot appear.

Yet oft, camelion-like, we change,  
And various hues assume,  
As taste or fancy may suggest,  
Yet lowly is our doom ;

Tho' not so low but that we make  
The great and noble bend  
Obsequious, when our aid they take,  
Their feelings to befriend.

Eyes more than mortals we can boast,  
Yet they no light afford,  
And tho' we each a tongue possess,  
We cannot speak one word :

For exercise we're much renown'd,  
Scarce ever off the feet,  
And ever, let what ills betide,  
Our post we faithful keep.

The country lout, the haughty peer,  
Alike our worth have prov'd,  
And e'en by you, ye lovely fair,  
Have we been priz'd and lov'd ;  
To your bed-sides, without a blush,  
You oft have us convey'd,  
Take one hint more, suspicion says,  
We're oft of cabbage made.

### IX. ENIGMA (851) by Mr. John Wells.

Before our Saviour came on earth,  
I trace my great forefather's birth ;  
In sacred hist'ry am recorded,

When Simon Peter was rewarded ;  
Tho' strange to tell, or boasting trade,  
I'm mostly for destruction made ;  
A faithful servant to my master,  
Unless I meet with some disaster.

Uncertain is the place I keep,  
I'm hung in land, drown'd in the deep.  
With sportsmen to the thicket roam,  
What they destroy I help bring home.

Am oft well cram'd, then go to pot :  
They scald, they boil me, or what  
nor.

Sure, you will think, I'm badly  
treated,

Since for man's profit we're created.  
Another hint or two I'll give,  
My chief design is to deceive.

I've many eyes, tho' none can see,  
And you may plainly see thro' me,  
So now, fair maids, I bid adieu ;  
Ere this I must be known to you.

X. Or PRIZE ENIGMA (852) by Mr. Tho. Woolston, Adderbury.  
*[Whoever answers it before February 1, has a chance for eight Diaries.]*

Dear Lady Di, once more accept the strains  
 Of thy delinquent bard, whose vagrant muse  
 By caitiff care long pinioned, silent lay,  
 In gloomy shades; but, rous'd by thy lov'd name,  
 She breaks her shackles, soars aloft to-day,  
 And visits Fancy's fairy realms, to bring  
 A votive offering to thy friendly page.

Come then, ye charming British fair, whose cheeks  
 Glow with the smiles of innocence and youth;  
 Come, let us wander through the blooming bow'rs,  
 And flow'ry mantled meads, where zephyr roves.  
 Stole from the blooms, as wantonly he plays  
 On their soft bosoms, thence to thee convey'd,  
 Enraptur'd ye shall taste my balmy sweets.  
 —But what of raptures? what of balmy sweets?  
 Let but the happy favour'd swain appear,  
 There in some deep recess, where vagrant foot  
 Of foul malevolence, nor slander strays,  
 With cherub innocence, ye there shall prove  
 The heartfelt power of my unsullied joys.

In Eden's bow'rs, ere happy Eve transgress'd,  
 She prov'd those joys, nor have her daughters since  
 Deny'd the bliss I'm destin'd to convey,  
 When offer'd up by friendship, or by love,  
 An offering pure at virtue's holy shrine.

Borne on the hands of kings, I oft am seen,  
 And fought in courts, as proud ambition's friend.  
 And where the wrangling ministers of law  
 Prove knotty cases, frequently produc'd;  
 And, O, tremendous! on the sacred word  
 There made by knaves a cloak, for foulest crimes!  
 Indeed, I somewhat seem akin to law,  
 For I two witnesses, at least, must have,  
 To prove the act and deed, though one may be,  
 As ladies oft can tell; a worthless brute.  
 O shame! perhaps, I'm giv'n to the dogs,  
 When honour's self might think no scorn to kneel.  
 Yet ah! implore the precious boon in vain!

I needs must own, the child of base deceit  
 I sometimes prove, as sacred records shew;  
 Debas'd my nature then, alas! I yield  
 To foul disgrace, of heav'n and men the scorn!  
 Nor tell how once by hell's suggestions dire,  
 Insidious treachery us'd me to betray.

O! 'tis too much!—but turn we from those scenes,  
 For I of gentlest parents chief am born,  
 The tender child of nature's fond regard;  
 A precious bliss, but soon I die away,  
 Like soft Etesian gales in myrtle groves,

But like their breathing odours, sweetly leave  
 The lov'd remembrance of my fleeting joys.  
 —Then, O, ye lovely fair, as e'er you hope  
 To taste my highest bliss, let honour pure  
 And sacred virtue all your footsteps guard,  
 So may you oft my thrilling raptures prove,  
 And laugh to scorn the envious shafts of vice.  
 —But hold—enough—Now draw the mystic veil,  
 And claim me, ladies, as your lawful prize.

NEW REBUSES, CHARADES, and QUERIES.

I. REBUS, by Mr. John Jackson, Carwood Hag.

Three letters just compose my name;	I oft allay the infant's cries,
Read either way, I'm just the same;	And sweetly close their moisten'd eyes.

II. REBUS, by Mr. G. H. Ifitt, Stanion.

What most adorns the British fair,	What's less than one a bet I'll lay,
What preys upon the timid hare,	What must arrive at close of day;
What oft corrupts the human mind,	What next,—why these initials join'd,
What you may twice in nothing find,	Displays a maid of wit refin'd.

III. REBUS, by Mr. John Rimmer, Liverpool.

Two-sevenths of a play select,	These parts, ye gentle fair, combin'd,
Th' initial of a muse,	Most clearly will discover,
Two sevenths also then connect	What I sincerely hope you'll find
Of what you now must use.	Inherent in each lover.

IV. REBUS, by Mr. Tho. R. Smart.

Take a part of yourself, or the beast which you eat,  
 Which, with nothing prefix'd, will my rebus complete.  
 Or, another way do it, suppose you like better,  
 A fruit of Damascus and harsh sounding letter.  
 Take which way you please, it amounts to the same,  
 And brings out a worthy Diarian's name;  
 On whose steps art and science with virtue attend,  
 My own and my Sanderfon's brother and friend.

I. CHARADE, by Mr. G. H. Ifitt, Stanion.

Behold, ye great, the Negro boy,	My next you're sure to find in each,
Depriv'd of home, bereft of joy,	As you will quickly see.
Oft sighs my first to be: [peach,	From earth behold my whole is torn,
Go, search the neck-line, plumb, or	The lofty mansion to adorn.

II. CHARADE, by Mrs. Blanch Lean, Ludgvan.

My first, a pungent subtle dust,	My whole a safeguard for my first,
My second, cloth'd in green,	Oft dress'd in gold is seen.



III. CHARADE, *by Mrs. Mary* —.

My first, ambitious, leaves the vale,  
And rises high in air.  
My second tasted Eden's gale,  
Ere sorrow enter'd there :

My third, the name the writer bears,  
Ah ! would it ne'er had been,  
A source of grief, thro' flowing years,  
Of many's tear unseen.

IV. CHARADE, *by Orville.*

If you were my first,  
And I were my whole,  
My second might go where he please ;

Then I shou'd be blest'd,  
And you'd be care's'd,  
And the whole of our lives pass in ease.

I. QUERY, *by Mr. John Johnson.*

If a wine glass be about two-thirds filled with liquor, and a tobacco pipe be drawn along on the edge of the glass, the foot of it being held firm on the table by the other hand, the liquor will by repeated quick strokes, fly over the top of the glass, so as nearly to empty it. How is this to be accounted for ?

II. QUERY, *by Mr. H. W. Maprè.*

Poets and painters all agree,  
That Charity has children three,  
Ye Fair, what can the reason be ?

III. QUERY, *by an Old Maid.*

Diarians explain, as I much wish to know,  
Why it's said, that Old Maids are to lead apes below ?  
For I'm now past my teens, I with candour declare ;  
Then censure me not, if you hear I despair.

IV. QUERY, *by Mr. Rob. Sanderfon.*

From what originates the custom of putting off the hat, as a mark of respect ?

\* \* It is again requested, that all letters be sent within the limited time, to come to hand before the end of April, otherwise they cannot be used, and post-paid, or franked, or they will not be received ; and that the several compositions be made as short as may be, with propriety ; but the solutions for the Prize Enigma and Prize Question must come to hand before Feb. 1, to entitle them to a chance for the prizes. And, along with all new Questions, Enigmas, Rebusses, and Charades, their answers must be sent.

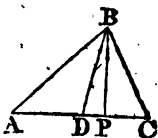
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## MATHEMATICAL QUESTIONS ANSWERED.

I. QUESTION (1074), answered by Mr. Wm Bawley, Hawkshead.

Let ABC be the triangle, BD the rivulet, and B the perp. to the base AC. Then because AB = PC, we have  $BD^2 + AD \cdot DC = AB^2 = 144 + 48 = 192$ , and  $AB = 13.8564$ . And  $AB + BD : AB - BD :: \tan \frac{1}{2} \sup \angle ABD : \tan \frac{1}{2} \angle D - \frac{1}{2} \angle A$ ; hence  $\angle A = 59^\circ 17' 42'' 97$ . Then, as  $\sin \angle A : BD :: \sin \angle ABD : AD = 5.952$ ; consequ.  $48 \div 5.952 = 8.064 = DC$ , and as radius : AB ::  $\sin \angle A : BP = 11.953$ .



Thereof.  $11.953 \times 8.064 \div 2 = 48.1844$  the area of the part BDC, and  $11.953 \times 5.952 \div 2 = 35.5721$  the area of the part BDA.

The same, by Mr Gregory, Cambridge.

In the figure,  $BD = 12$  chains,  $AD \times DC = 48$ ,  $AB = BC$ , and  $\angle ABD = 25^\circ 20'$ . It has been proved (see Dr Hutton's Geom. Theor. 39) that  $AB^2 = BD^2 + AD \cdot DC$ , that is =  $144 + 48 = 192$ , theref.  $AB = \sqrt{192} = 13.8564065$ . Here then we know AB, BD, and the included  $\angle ABD$ , whence we find  $\angle D = 95^\circ 2' 58''$ ,  $\angle A = 59^\circ 37' 2''$ , and the side  $AD = 5.95202$ ; then  $48 \div 5.95202 = 8.064489 = DC$ ; hence  $AB \times BD \times \frac{1}{2} \sin \angle ABD = 35.57459$  chains, of 3 ac. 2 ro. 9.177 perches, the area of the triangle ABD; and, since triangles of equal altitudes are as their bases, we have  $AD : DC :: \text{area of ABD} : \text{area of BDC} = 48.19922$  chains = 4 ac. 3 ro. 11.187 perches.

The Same, by Mr. Wm Green, Academy, Deptford.

By Theor. 39 Dr Hutton's Geom.  $AD \times DC + BD^2 = AB^2$ , hence  $AB = \sqrt{192} = 13.8564 = BC$ , and  $\frac{1}{2} AB \times BD \times \sin \angle ABD = 3 \text{ ac } 2 \text{ ro. } 10 \text{ perches nearly}$ . As  $AB + BD : AB - BD :: \tan \frac{1}{2} \angle D + \frac{1}{2} \angle A : \tan \frac{1}{2} \angle D - \frac{1}{2} \angle A$ , hence the  $\angle A$  or  $B = 59^\circ 37'$  and theref.  $\angle APC = 60^\circ 46'$ ; hence  $\frac{1}{2} AC^2 \times \sin \angle ABC = \text{area of tri. ABC} = 8 \text{ ac. } 1 \text{ ro. } 2 \text{ p.}$

from which take the triangle ABD = 3 2 9  
leaves the area of the triangle BDC = 4 3 11

Various other answers, beside those in The Supplement, were given by Messrs. S. Baker, P. Barlow, Tommy Barnes, Geo. Barrett, J. Barron, Wm Baylis, T. J. Briant, E. Brown, G. Buffham, W. Burdon, J. Campbell, J. Cavill, J. Cohen, J. Collins, Wm Co'e, A. Corfe, J. Craggs, Tho. Crowder, Wm Eaton, J. Forrest, Wm Francis, Rev. J. Furness, J. Hawkes, S. Hefford, T. Hewitt, T. Hornby, J. Houlgate, Kaye, J. Knight, P. Leeming, H. Lightbown, Loretto, J. Marr,

J. Marr, W. Marrat, Ja. Macnamara, Merones, J. Macdonald, Sam. Penglose, Wm Richards, Alex. Rowe, J. Ryley, Rev T S, Rev. Tho. Scurr, J. H. Shirreff, J. Skeels, Surtees, J. Taylor, Tho. Towan, Wm Truman, J. Walker, Wm Walker, Wm Watkins, Wm Wilson, Wm Wood, S. Woodhouse, Rev. Wm Wright, &c.

II. QUESTION (1075), *ans. by Mr. J. Barron, Schoolmaster, Spilby.*

Put  $x^2 + 87 = (x + d)^2$ , and  $x^2 - 87 = x^2$ ; their diff. is  $2 dx + d^2 = 174$ ; hence  $x = \frac{174 - d^2}{2d}$ , where  $d$  may be taken any square number less than 174, and therfore  $d$  not greater than 13. — If  $d = 1$ , then  $x = \frac{173}{2}$ , and  $n = \sqrt{\frac{29277}{4}}$ ; hence  $x^2 + 87 = (\frac{173}{2})^2$ , and  $x^2 - 87 = (\frac{173}{2})^2$ .

*The same answered, by Mr. Wm Cole, Colchester.*

To obtain a general solution to this quest. put  $n = 87$ . Then, by the quest.  $x^2 + n$  and  $x^2 - n$  must be rational squares. Let  $x^2 + n = y^2$ , then will  $x^2 - n = y^2 - 2n$ . Substitute  $y^2 - 2n = (y - m)^2 = y^2 - 2ym + m^2$ , hence  $y = \frac{2n + m^2}{2m}$ , where  $m$  and  $n$  may be taken equal to any numbers whatever; and the values of the two squares will be  $y^2 = (\frac{2n + m^2}{2m})^2$ , and  $y^2 - 2n = (\frac{2n + m^2}{2m})^2 - 2n$ . In the present case we have  $n = 87$ , and taking  $m = 1$ , we have  $x^2 + n = \frac{30625}{4}$ , and  $x^2 - n = \frac{29277}{4}$ , whose roots are  $\frac{175}{2}$  and  $\frac{173}{2}$  respectively; and the value of  $x = \sqrt{(\frac{2n + m^2}{2m})^2 - n} = \sqrt{\frac{30277}{4}}$ , an irrational number, which it must be in all cases, because  $x^2$  is an arithmetical mean between two rational squares. Suppose  $n = 87$  and  $m = 2$ , then we have  $y^2 = \frac{7921}{4}$ , and  $y^2 - 2n = \frac{7225}{4}$ , whose roots are  $\frac{89}{2}$  and  $\frac{85}{2}$ . Or, supposing  $n = 1$ , and  $m = 1$ , we have  $y^2 = 2$  and  $y^2 - 2n = 0$ , whose roots are  $\frac{1}{2}$  and  $\frac{1}{2}$ .

*The same, by Mr. Alex. Rowe, Reginnis.*

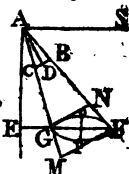
In the latter expression, as I sent it, it was  $x^2 - 85$ , not  $x^2 - 87$ . This being cor. let  $x^2 + 87 = (x + 1)^2 = x^2 + 2x + 1$ , and  $x^2 - 85 = (x - 1)^2 = x^2 - 2x + 1$ ; the diff. of these two gives  $172 = 4x$ , and hence  $x = 43$ . Conseq.  $43^2 + 87 = 1936$ , and  $43^2 - 85 = 1764$ , are the square numbers, the roots of which are 44 and 42, as required.

*This question was also answered by Messrs. Barlow, Bewley, Briant, Brown,*

Brown, Buffham, Burdon, Cavill, Chaddisden, Collins, Craggs, Croudace, Francis, Furnass, Gregory, Hawkes, Hifford, Houlgate, Knight, Loretto, Macdonald, Macnamara, Marr, Marrat, Merones, Myrse, Ryley, Scurr, Shirreff, Simpson, Stewens, Surtess, Towns, Walker, Woodhouse, &c.

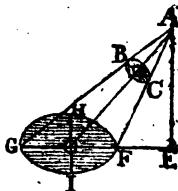
### III. QUEST. (1076), *ans. by Mr. G. Buffham, Boston.*

Let EF represent the plane of the table, AS parallel to it, ABC a section of the cone, whose perp. AD makes the  $\angle DAS = 60^\circ$ , inst. of  $60^\circ$ , which is prob. a press error, for the  $\angle DAB = 14^\circ 2' 10'' \frac{1}{2}$ , which would cause the ray BF to go from the table; and GOF the shadow on the table, which is an ellipse by the property of the cone, whose transverse is GF, and conjugate OP =  $\sqrt{GN \times FM}$ , by Dr Hutton's Conics, pa. 6; also draw the lines as per figure. First, in the right-angled triangle AGE, there are given AE = 60 inches, and the  $\angle GAE = 15^\circ 57' 49'' \frac{1}{2}$ , to find AG = 61.4067. Then, in the tri. AGF, are given the angles and the side AG, to find GF = 40.85108, and AF = 82.46082. In the same manner, or by sim. tri. are found GN = 30.2717, and FM = 40.48447; therof. OP =  $\sqrt{GN \times FM} = 35.00762$ ; conseq. the area of the shadow =  $GF \times OP \times .7854 = 1123.2$  inches, or 7.8 square feet.



*The same, by Mr Wm Francis, Junr. Maidenhead.*

I presume the inclination of the cone's axis should have been  $60^\circ$ , instead of  $60^\circ$ . Then  $\sqrt{12^2 + 3^2} = 12.5693 = AC$ , the cone's slant height; and as  $A C :: \text{radius} :: DC :: \sin. \angle DAC = 14^\circ 2' 3'' = \angle BAD$ . Also as  $\sin. \angle AOE :: AE :: \sin. \angle OAE :: OE = 34.6411$  and  $\therefore \text{radius} :: OA = 69.282$ . Again, as  $\sin. \angle AFE :: AE :: \sin. \angle FAE :: EF = 17.1575$ ; and as  $\sin. \angle AGE :: AE :: \sin. \angle GAE :: GE = 58.026$ . Therof.  $GF = GE - EF = 40.8685$ , the transverse diam. of the elliptical shadow. And as  $AD : DB :: AO : OH = 17.3205$  an ordinate to the absciss OF. Hence as  $\sqrt{GO \cdot OF} :: OH :: GF :: 35$  the conjugate diameter. Therof. the area is 1123.4342 sq. inches.

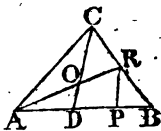


*Answers to this quest. were also given by Messrs. Barrett, Barron, Bewley, Brown, Burdon, Campbell, Cole, Collins, Craggs, Croudace, Eaton, Forcst, Furnass, Gregory, Hifford, Houlgate, Leeming, Loretto, Macdonald, Macnamara, Merones, Penlase, Richards, Ryley, Scurr, Surtess, Swanwick, Towns, J. Walker, Watkins, Wood, Woodhouse, &c.*

### IV. QUEST.

IV. QUEST. (1077), *ans. by Mr. John Cavill, of Brighion.*

Here are given  $AB = 20$ ,  $CD = 12$ ,  $AD = 11$ ,  $BD = 9$ . Theref. since  $BD : CD :: 3 : 4$ ,  $BP$  to  $PR$  are in the same ratio. Put  $3x = BP$ ,  $4x = PR$ ,  $a = AD$ ,  $b = AB$ ,  $7 \times 20 = 140$  shillings =  $s$ , then  $b - 3x = AP$ . Now, by sim. tri.



$b - 3x : 4x :: a : \frac{4ax}{b-3x} = DO$ , and  $\frac{2a^2x}{b-3x} = \text{area of the tri. } ADO$ ; but  $2bx = \text{area of the tri. } ABR$ , theref.  $2bx - \frac{2a^2x}{b-3x} = \text{area of the trap. } DORB$ ; conseq.  $(2bx - \frac{2a^2x}{b-3x}) \times 2 + \frac{2a^2x}{b-3x} \times 2\frac{1}{2} = s$ , that is  $4bx + \frac{a^2x}{b-3x} = s = 7b$ ; this reduced, and in numbers, is  $x^2 - \frac{2141}{240}x = -\frac{140}{12}$ ; hence  $x = 1.591855$ , th ref.  $BP = 4.775565$ , and  $PR = 6.36742$ , alio  $BR = 7.959275$ , which gives the point  $R$ .

*The same, ans. by Mr A. Corse, Royal Artillery.*

Let  $ABC$  represent the triangular field,  $AOR$  the dividing line, also  $CD$  and  $RP$  perp. to  $AB$ . Now  $AD = 11$ ,  $BD = 9$ , and, the area being given, the perp.  $CD$  and side  $BC$  are found =  $12$  and  $15$  respectively. Now put  $x = BR$ ; then by sim. tri.  $15 : 12 :: x : \frac{4}{3}x = PR$ , and  $15 : 9 :: x : \frac{3}{2}x = PB$ , hence  $20 - \frac{3}{2}x = AP$ , and as  $20 - \frac{3}{2}x : \frac{4}{3}x :: 11 : \frac{44x}{100-3x} = DO$ . Then  $\frac{24.2x}{100-3x} = \frac{1}{2}DO \times 11 = \text{area of the tri. } ADO$ , or quantity of land at 25 shillings per acre, and  $\frac{1}{2}AB \times PR = 8x$  the area of the tri.  $ABR$ , theref.  $8x - \frac{24.2x}{100-3x} = DORB$  the quantity of land at 20 shillings the acre.

Hence  $16x + \frac{121x}{100-3x} = 140$ , which reduced gives  $x^2 - \frac{2141}{48}x = -\frac{14000}{48}$ , which gives  $x = 7.95927$  the distance of the required point from the angle at the base.

*Solutions to this quest. were also given by Messrs. Barlow, Barrett, Barron, Bewley, Biant, Brown, Buffam, Burdon, Campbell, Cole, Collins, Craggs, Croudace, Eaton, Forest, Francis, Furness, Gregory, Hefford, Hewitt, Hunter, Hornby, Knight, Leeming, Loretto, Macdonald, Marrat, Merones, Penglas, Richards, Rowe, Ryley, T. S. Scurr, Surtees, Taylor, Towan, Truman, J. Walker, W. Walker, Watkins, Wilson, Wood, Woodhouse, &c.*

V. QUESTION

V. QUEST. (1078), *ans. by Mr. Wm Bewley, Colthouse Academy.*

Rejecting the weight of the beam, as not material to the present question; and calling  $AB = 24$  feet  $= 288$  inches  $= a$ ,  $AC = 10 = b$ ,  $BD = 4 = d$ ,  $AP = x$ . As the weight is equally distributed on the whole length of the beam when propped at  $P$ , the part  $AP$  will be weakest at  $P$ , and the part  $PB$  will be weakest at  $B$ . Now the strength at  $P$  is as the square of the depth  $PR$ , and the strength at  $B$  as the square of the depth  $BD$ , also the momentum or stress on the part  $AP$  is as  $AP^2$ , and that on  $PB$  as  $PB^2$ , therefore the comparative resistances against breaking at  $P$  and  $B$ , are as  $\frac{PR^2}{AP^2}$ , and  $\frac{BD^2}{PB^2}$ ;

but when the beam is the strongest, these two will be equal to each other, or  $\frac{PR}{AP} = \frac{BD}{PB}$ , or  $PR \times PB = AP \times BD$ . Now by sim. figures,

$AB : AP :: AC - BD : AC - PR$ , that is,  $a : x :: b - c : b - PR$ ; hence  $PR = b - \frac{b-c}{a}x$ ; hence  $PB \times PR = AP \times$

$BD$  gives the equat.  $(a - x) \times (b - \frac{b-c}{a}x) = cx$ ; which reduces to

$x^2 - \frac{2ab}{b-c}x = -\frac{a^2b}{b-c}$ , or in numbers,  $x^2 - 80x = -960$ ,

when the numbers are brought to feet; then the root  $x = 14.79178$  feet, the distance from the larger end of the beam where the prop must be set, to make the beam the strongest under the given circumstances.

*The same, by Mr Henry Hunter, Alnwick.*

Put  $b =$  the depth at the greater end,  $c =$  that at the left,  $a =$  the length of the beam, and  $x =$  the depth at the prop. Then  $b - c : a :: x - c : a(x - c) \div (b - c) =$  the distance of the prop from the less end, conseq.  $a - a(x - c) \div (b - c) = a(b - x) \div (b - c)$  the distance from the greater end. Hence the stress on each fibre at the prop will be as  $\frac{x-c}{b-c}a \times \frac{b-x}{b-c}a \div 2x$ , which is to be a minimum, or  $\frac{(x-c) \times (b-x)}{x}$  a min. or  $-x - \frac{bc}{x}$  a min. its fluxion  $-x + \frac{bc}{x^2}$

$= 0$ , hence  $x^2 = bc$ , and  $x = \sqrt{bc} = \sqrt{40} = 6.324555$  the depth of the beam at the prop, which is a mean proportional between the thickness at the two ends. Hence  $(x - c) a \div (b - c) = 9.29822$  feet, the distance of the prop from the smaller end.

*Solutions to this question were also given by Messrs. Barrett, Briant, Boddon, Crockett, Cradock, Eaton, Francis, Furness, Henry, Hewitt, Knight, Macnamara, Merones, Priddy, Rowe, Ryus, Scurr, Shirreff, Surtees, Walker, Watkins, Wood, &c.*

VI. QUEST. (1079), *ans. by Mr Geo. Barrett.*

Put  $x$  for the number of feet the water will rise in the tube. Then, as the product arising from the space occupied by the air in its compressed state multiplied by its compressing force, will always amount to the same, we therefore have  $(33\frac{1}{2} + 9\frac{1}{2} - x) \times (3\frac{1}{2} - x) = 33\frac{1}{2} \times 3\frac{1}{2}$ ; an equation which reduces to  $x^2 - 47x = -34\frac{1}{2}$ ; Hence  $x = .7376407$  feet, or 8.851684 inches, the height sought.

*The same, by Mr J. Collins, Kensington.*

First,  $w =$  weight of the atmos.  $= 33\frac{1}{2}$ ,  $AF = 9\frac{1}{2}$ ,  $AE = 3\frac{1}{2}$ , and  $BF = x$ . Then by Dr. Hutton's new Course; pa. 241, as  $33\frac{1}{2} + AF = BF : 33\frac{1}{2} :: 3\frac{1}{2} : 3\frac{1}{2} - x$ , that is as  $43\frac{1}{2} : 33\frac{1}{2} :: 3\frac{1}{2} : 3\frac{1}{2} - x$ , by mult. extremes and means, &c.  $x^2 - 47x = -34\frac{1}{2}$ ; this solved gives  $x = .73764$  feet  $= 8.85180$  inches.



*The same, by Mr Tho. Croudace and Mr Rob. Surtees, Lancaster.*

As  $3\frac{1}{2}$  feet is the given depth the lower end of the tube is immersed,  $33\frac{1}{2}$  the given pressure of the atmosphere at the same time, and  $3\frac{1}{2}$  the length of the tube. Let  $x =$  the space occupied by water in it; then  $3\frac{1}{2} - x =$  the space occupied by air; but by Vol. 1 pa. 390 Dr Hutton's Dictionary, the space occupied by air, is to the space filled with water; as the pressure of the atmosphere, is to the depth of the surface of the water in the tube below the common surface of it, viz. as  $3\frac{1}{2} - x : x :: 33\frac{1}{2} : 3\frac{1}{2} - x$ , hence  $34\frac{1}{2} - 13\frac{1}{2}x + x^2 = 33\frac{1}{2}x$ , or  $x^2 - 47x = -34\frac{1}{2}$ , and  $x = .7376541$  of a foot, or 8.8518492 inches, the height required.

*The same, by Mr Alex. Rowe, Reginnis, near Penkance.*

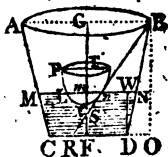
Put  $a = 3\frac{1}{2}$  feet, the length of the barometer tube;  $b = 9\frac{1}{2}$  feet, its depth below the surface of the water;  $p = 33\frac{1}{2}$  feet, the pressure of the atmosphere, and  $x =$  the height to which the water will rise in the tube. Then, by Dr Hutton's Course of Math. Vol. 2 pa. 241, as  $b + p = x : p :: a : a - x$ , or in numbers,  $43\frac{1}{2} - x : 33\frac{1}{2} :: 3\frac{1}{2} : 3\frac{1}{2} - x$ ; hence, mult. extremes and means,  $152\frac{1}{2} - 47x + x^2 = 113\frac{1}{2}$ , and the root  $x = .73764$  feet  $= 8.85168$  inches, as required.

*Ingenuous answers were also given by Messrs Baker, Barnes, Barron, Bayley, Briant, Brown, Eusham, Burdon, Campbell, Griggs, Eaton, Eley, Francis, Furness, Gregory, Hafford, Hewitt, Hornby, Houlgate, Hunter, Lightbown, Loreto, Macdonald, Macnamara, Murr, Murrat, Macrean, Penglase, Rees, Ryley, Smith, Swannick, Sowcrby, Taylor, Towne, Troman, Watkins, Wood, Wright, &c.*

## VII. QUEST.

VII. QUEST. (1080), *ans* by Mr Tho. Crenshaw and Mr R. Swetes.

Let  $A B D C$  represent the vessel,  $P E V$  the half spheroid,  $M L N$  the surface of the water after the cork is put in. The solidity of  $P E V$  is 603.18578 inches, which mult. and divided by the weight of a cubic inch of cork and water, gives 311.527733 inches, the quantity of water displaced by the cork, or the solidity of  $L E n$ ; then by Dr Hutton's Mensur. for finding the segment of a spheroid, the height  $E m = 5.32104$ , the ordinate  $m n = 5.653586$ , and by Conics as  $I m : I E :: I E : I S = 25.889678$ ; but by sim. tri. as  $m n : m S :: G B : G S = 105.048391$ , and  $m F = 24.162327$ ; also as  $F G : G B :: F m$  or  $D W :: W N = 2.2372525$ , and  $M N = 40.474505$ , hence the solidity of  $M C D N M$  less solidity of  $L S W L$ , gives 27467.499249 inches, or 97.402 gallons, the quantity of water in the vessel.



*The same by Mr Isaac Rowbottom, West-Hallam.*

Let  $A B D C$  represent the vessel,  $A B$  and  $C D$  the two diameters,  $G F$  the axis,  $P V E$  the hemispheroid,  $M N$  the surface of the water after the solid is put in,  $L E n$  the part of the solid immersed in the water,  $B n$  the line touching the solid at  $n$ , which will be a tangent to the curve at  $n$ , produce  $B n$  to cut  $G F$  in  $S$  and  $C D$  in  $R$ , and  $C D$  produced to  $O$  where a perp. from  $B$  meets it.  $P V = 2 C = 12$ ,  $I E = r = 8$ ,  $m = 298888$  of an ounce the weight of a cubic inch of cork,  $w = 578697$  oz. that of water,  $p = 3.1416$ , and  $\pi = E m$ . Then  $\frac{2}{3} p r^2 c^2$  is the solidity of the hemispheroid, and  $\frac{2}{3} p r^2 c^2 m$  its weight, conseq.  $\frac{2}{3} p r^2 c^2 m \div 3 w$  the cubic inches of water removed by the solid, which must be equal to the part  $L E n$  immersed, hence, by the property of the spheroid,  $\frac{p r^2}{2} \times (x^2 - \frac{1}{2} x^3) = \frac{2 p r^2 c^2 m}{3 w}$ , in numbers  $24 x^2 - x^3 = 528.880073$ , hence  $x = 5.3211219$ , and  $m n = 5.65360785$ , conseq. the subtang.  $S m = 21.21172$ . Then, by sim. tri.  $S m : m n :: B O : R O = 28.785485$ , and  $R O - O F = R F = .785485$ . Again, by sim. tri.  $R O : O B :: R F : F S = 2.94705$ ; then  $S m + S F = F m = 24.15877$ , the height of the water in the vessel; conseq.  $M N = 40.473846$ , hence the solidity of  $M N D C$  — that of  $L E n = 97.38197$  gallons, the quantity of water in the vessel.

\* \* \* *Errat.* In this question last year, line 6, the word *axes* was printed instead of *semiaxes*, which caused most of the Solutions to differ in the numbers from that of the proposer.

*Ingenuis solutions were also given by Messrs. Barrett, Barron, Bewley, Brown, Buffham, Burdon, Campbell, Collins, Craggs, Eaton, Francis, Furness, Hornby, Hunter, Lorette, Marratt, Merones, Pengase, Richards, Riley, Scurr, Skewes, Swanwick, Towan, Walker, Wood, Wright, &c.*

## VIII. QUEST.



VIII. QUEST. (1081) *answ. by Mr Wm Burdon, Acaffer-Malbis.*

Put  $x$  = the diam. of the globe; then  $5 : 2 :: 3 \cdot 1416 x^2 : 5236 x^3 :: 6 : x = x \cdot 4$ . And, from Dr Hutton's Dict. Vol. 1 pa. 268, the distance of the centre of oscillation from the point of suspension will be found = 9.8 inches. Theref.  $\sqrt{9.8} : \sqrt{394} :: 60 : 120$  the number of vibrations made in one minute, and  $120 : 60 :: 20 : 10$  the time of making 20 vibrations. Conseq.  $1'' : 1142$  (the veloc of sound per second)  $:: 10'' : 11420$  feet = 2 miles and 862 feet, the distance of the cloud.

*The same, by Mr Wm Richards, London.*

Put  $x$  = the diam. of the ball, and  $p = 3 \cdot 1416$ . Then  $p x^2$  = the superficies, and  $\frac{1}{8} p x^3$  the solidity of the sphere: theref. by the quest.  $p x^2 : \frac{1}{8} p x^3 :: 5 : 2$ , hence  $x = 2.4$ , and the radius of the sphere = 1.2 inches. Put  $r = 1.2$ ,  $a = 8 \cdot 540869$ , and  $g = a + r$ , then, by

Dr Hutton's Dictionary, Vol. 1 pa. 268,  $g + \frac{2 r^2}{5 g} = 9.8$  inches nearly is the distance of the centre of oscil. or the length of a pendulum isochronal to the given one. Theref. as  $39\frac{1}{4} : 9.8 :: 20^2 : 100 \cdot 1917$  the square of the vibrations of a second's pend. and the square root  $10 \cdot 00957$  is the number of seconds; then  $10 \cdot 0957 \times 1142 = 11430 \cdot 9289$  feet, or 2 miles 290 yards 1 foot nearly, is the distance required.

*The same, by Mr Wm Watkins, Heddon-on-the-Wall.*

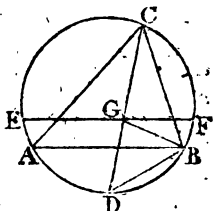
Put  $a = AS = 8 \cdot 540869$ ,  $t = 5236$ ,  $p = 3 \cdot 14159$ , and  $AB = x$ . Then as  $p x^2 : t x :: 5 : 2$ , theref.  $x = 2 p \div 5 t = 2.4$  the axis of the spherical bob. But, by pa. 268 Dr Hutton's Dict. Math. the length of the pend. is  $SD = g + \frac{2 r^2}{5 g} = 9.8$  inches very nearly. Again, by the same, the lengths of pendulums are reciprocally as the squares of the number of vibrations, theref. as  $\sqrt{9.8} : 1'' :: \sqrt{394} : 1 \cdot 988$  vibrations in a second, and  $20 \div 1 \cdot 988 = 10 \cdot 06$  seconds nearly; then, pa. 472 above, found, lies 13 miles in a minute nearly; hence  $60'' : 13 :: 10 \cdot 06 : 2 \cdot 1796$  miles, the distance.

*The same was ingeniously answered by Messrs. Barlow, Barnes, Barret, Barron, Baylis, Bewery, Briant, Brown, Buffham, Campbell, Cavill, Colins, Craggs, Croudace, Eaton, Ely, Forrest, Francis, Furness, Gregory, Hawkes, Hifford, Henry, Hewitt, Hornby, Hunter, Houlgate, Knight, Leeming, Lightbourn, Loretto, Macdonald, Marratt, Merones, Pinglease, Rowe, Kyles, Scurr, Surtess, Swanwick, Taylor, Towan, Truman, Walker, Wood, &c.*

## IX. QUEST.

## IX. QUEST. (1082), answered by Mr Geo. Barrett.

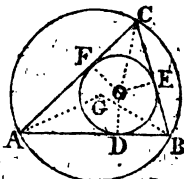
*Conf.* With the given radius describe the circumscribing circle; from any point D take the arcs DA, DB each equal to the measure of the given angle, and join AB, parallel to which draw EF at a distance from it equal to the given radius of the inscribed circle; join BD, and from D to EF apply  $DG = DB$ , which produce to the circumference at C, joining AC and BC; then ABC shall be the triangle that was to be constructed.



*Dem.* The  $\angle ACB$  will be equal to the given angle, having the arc AD or DB for its measure by const. and Eucl. 20, 3; also the  $\angle ACD = \angle DCB$  by Eucl. 27, 3; conseq. the line CD bisects the  $\angle ACB$ . Join BG; then, the  $\angle DGB = \angle DBG$ , for  $DB = DG$ ; and also  $\angle GCB + \angle GBC$  by Eucl. 32, 1; but because the  $\angle DCB = \angle ABD$  on the equal arcs DA, DB; the  $\angle GBC$  shall be  $=$  the  $\angle ABG$ ; conseq. the line BG will bisect the  $\angle ABC$ ; and therof. as G is the point of intersection of the two bisecting lines CD and BG, it will be the centre of the inscribed circle of the triangle ABC.

The same, by Mr John Craggs, Hyton, near Sunderland.

*Geomet. Analysis.* Suppose ABC to be the triangle required, and G and O the centres of the inscribed and circumscribed circles. Now the  $\angle ACB = \frac{1}{2} \angle AGB$ , and  $AG = GB =$  radius of the circum. circle are both given, hence the base AB of the triangle ABC is also given; likewise  $OE = OF =$  radius of the in cr. circle, the  $\angle OCE = \angle OCF = \frac{1}{2}$  vertical angle, and  $CE = CF$  are also given, lastly  $\angle C + AB = \angle AC + CB$  are also given. Therof. the question is reduced to this, Given the base, sum of the sides, and the vertical angle, to construct the triangle. See the constr. at pa. 315 Simpson's Algebra, 6th Edition.



Ingenious answers were also given by Messrs. Amicus, Barlow, Bewley, Brown, Burdon, Cavill, Cohen, Cole, Collins, Coxse, Croudace, Eaton, Forest, Furness, J. G. Gregory, Hewitt, Hornby, Houlgate, Hunter, Macnamara, Marrat, Meones, Rowe, Scurr, Surtees, Swanwick, Taylor, Truman, Walker, Watkins, Wood, Woodhouse, Wright, &c.

## X. QUEST. (1083), ans. by Mr John Barron, Schoolmaster, Spilsby.

The area of the fortification is given  $= 10890$  feet, from which the diam. is found  $= 117.752$ . And since the width of the ditch is 24 at bottom and 26 at top, the mean width is 25, conseq.  $117.752 + 50 = 167.752$  is the diam. of the fort and ditch together; hence, by a well-known

known property of circles, as  $117.752^2 : 167.752^2 :: 10890 : 22101.7523$  the area including the ditch, conseq.  $22101.7523 - 10890 = 11211.7523$  is the mean area of the ditch, and  $11211.7523 \times 12 = 134541.0276$  cubic feet is the quantity of water required to fill the ditch. Then, by Dr Hutton's Math. Vol. 2 pa. 341, putting  $g = 16\frac{1}{2}$ , and  $\pi =$  the area of the sluice, as  $\sqrt{g} : \sqrt{10} :: 2g : 2\sqrt{10}g$  the velocity of the water through the sluice, conseq.  $2\pi\sqrt{10}g$  is the quantity of water per sec. running through it, and  $3600 \times 2\pi\sqrt{10}g$  the quantity running in 3600" or one hour, therof.  $3600 \times 2\pi\sqrt{10}g = 134541.0276$ , hence  $\pi = 134541.0276 \div 7200\sqrt{10}g = 1.47344692$ , the area of the square sluice, and  $\sqrt{\pi} = 1.21385$  its side required.

*The same, by Mr Wm Francis, Jun. Maidenhead.*

Put  $\pi =$  the diam. of the fortification. Then  $.7854\pi^2 = 2.5$  square chains, and  $\pi = 1.784$  chains  $= 117.744$  feet. Now the ditch in fortification slopes equally on each side, therefore the conical frustum  $a b c d$  deducted from the conical frustum  $A B C D$ , will be the water's content  $= 135474.84512$ . Then, by Dr Hutton's Course, the Hydraulics prop. 61,  $2a\sqrt{16\frac{1}{2}} \times 10 = 135474.84512 \div 60^2$ , hence  $a = 1.483673$  feet the area of the sluice, and  $\sqrt{a} = 1.218$  feet, its side.



*The same, by Mr Gregory, Teacher of Math. Cambridge.*

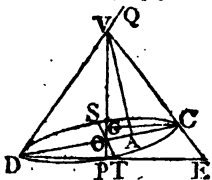
A quarter of an acre is equal to 10890 feet, the ground occupied by the fortification, which being circular,  $\sqrt{10890 \div .785398} = 117.7522$  its diameter. Then, 26 feet being the breadth of the ditch at the top,  $(117.7522 + 26) \times 3.141593 = 451.6109$  the length of the ditch measuring along the middle; and the area of a vertical section of the ditch will be  $\frac{1}{2}(26 + 24) \times 12 = 300$ ; therof.  $451.6109 \times 300 = 135483.27$  feet of water required to fill the ditch. Then, the head of water being 30 feet above the sluice, we have, by prob. 24 Dr Hutton's Conic Sections and Select Exercises,  $\sqrt{g} : \sqrt{10} :: 2g : 2\sqrt{10}g$ , velocity of the water per second through the sluice,  $g$  being  $16\frac{1}{2}$ ; and, if  $\pi$  denote the area of the sluice,  $2\pi\sqrt{10}g$  will be the quantity of water running through it per second. Hence, 3600 being the seconds in one hour, we have  $3600 \times 2\pi\sqrt{10}g = 135483.27$ ; whence  $\pi$  is found to be  $135483.27 \div 7200\sqrt{160\frac{1}{2}} = 1.483765$  feet area of the square sluice, and  $\sqrt{\pi} = 1.2181$  feet very nearly, the side of the sluice.

*Ingenious answers were also given by Messrs. Baker, Barrett, Bewley, Brown, Buffham, Burdon, Collins, Corse, Craggs, Eaton, Fereß, Furnass, Green, Hewitt, Hornby, Hunter, Knight, Lightbown, Lott, Macdonald, Marrat, Merones, Myrese, Richards, Rowe, Ryley, Smith, Truman, Walker, Watkins, Wilson, Wood, Wright, &c.*

XI. QUEST.

XI: QUEST. (1084) *ans. by Mr Wm Burdon, the proposer.*

The lat. ( $70^{\circ}$ ) and declin. ( $23^{\circ} 28'$ ) being given, the two meridian altitudes on that day are easily found to be  $3^{\circ} 28'$  and  $43^{\circ} 28'$ . Now let  $AV$  represent the staff,  $D S C T O$  the plane of the horizon. Then the rays intercepted by  $V$ , in one revolution, will form a cone, the axis of which produced passes through the poles of the world, and conseq. when the sun does not set the path of the shadow will be an ellipsis, suppose  $D S C T$ : draw  $CG$  and  $DPE$  perp. to  $VP$  the cone's axis,  $VC$  being produced to meet  $DE$  in  $E$ .



Put  $f = \text{fine of } 46^{\circ} 56' = \angle QVC = \text{double the sun's declin. } VDP$ , or  $VEP$

$g = \text{fine of } 43^{\circ} 28' = \angle VCD$  his greatest meridian altitude,

$b = \text{fine of } 3^{\circ} 28' = \angle VDC$  his least meridian altitude,

$p = \text{fine of } 66^{\circ} 32' = \angle DVP$  or  $EV P$  his co-declination, and

$x = AV$  the height of the staff. Then, by trigonometry, as  $g : x :: 1$  (radius) :

$\frac{x}{g} = CV$ , and  $b : CV :: f : \frac{f x}{g b} = DC$ ; as  $1 : CV :: p$

$:\frac{p x}{g} = CG$ ; as  $b : x :: 1 : \frac{x}{b} = DV$ ; as  $1 : DV :: p : \frac{p x}{b} =$

$DP$ . Now, by Dr. Hutton's Conics, the conjugate diameter  $ST =$

$2 \sqrt{EG \times DP} = \frac{2 p x}{\sqrt{g b}}$ , hence  $DC \times ST \times .7854 = \frac{2 p x}{\sqrt{g b}} \times \frac{f x}{g b}$

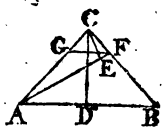
$\times .7854 = 10:0$  the area of the ellipsis  $D S C T$ ; therf.  $x =$

$\sqrt{\frac{1000 g b \sqrt{g b}}{1.5708 p f}} = 2.839$  yds. the req. height of the staff.

NB. If an allowance be made for semidiam. &c. the answer will come out a little different.

*The same by Mr Geo. Barratt.*

The sun being in the tropic on the 21st of June, will be at its greatest decli. North, which is nearly  $23^{\circ} 28'$ ; and if his apparent semi-diam. at that time be  $16'$ , the northern part of his disc will decline  $23^{\circ} 44'$  from the equator. Let  $ABC$  represent the section of an upright cone, through its axis  $CD$ . Supposing the angles  $A$  and  $B$  of the section to be each  $= 23^{\circ} 44'$ , then half the vertical,  $\angle ACB$ , will be the  $\angle ACD$  or  $BCD = 63^{\circ} 16'$ ; conseq. if  $CD$  be the earth's axis produced, a line drawn from the northern part of the sun's disc to the point  $C$  will, if produced, pass through the circumference of the cone's base; and the shadow (of the axis produced)  $CD$  would pass over a space, on a plane coinciding with the cone's base, during the sun's apparent revolution, equal to the area of the cone's base; and  $A F$  be a plane parallel to the horizon, where the staff is erected, its inclination to  $CD$  will be  $70^{\circ}$ ; and the section of the cone by this plane, passing through  $A$ , will be an ellipsis, similar to that which the shadow of the staff will make on the horizontal plane, the greater axis of this ellipsis will be  $AF$ , and the less a mean proportion between  $AF$  and its parallel  $FG$ . Draw  $C E$  perpendicular to



lar to A F; then will C E be parallel to the staff, and the  $\angle D C E$  will be  $20^\circ$ . Let  $C E = 1$ ; then as the  $\angle A C E = 86^\circ 16'$ , its tang. will be  $A E = 15.325358$ , and its sec.  $A C = 15.357949$ ; and as the  $\angle E C F = 46^\circ 16'$ , its tang. will be  $E F = 1.0452221$ , and its sec.  $C F = 1.4465439$ ; conseq.  $A E + E F = A F = 16.370580$  the tran. sec. To find A B, say as radius : sin.  $\angle A C D :: 2 A C : A B = 28.1182115$ ; and to find F G, say as radius : sin.  $\angle A C D :: 2 C F : F G = 2.6484153$ ; theref.  $\sqrt{A B \cdot F G} = 8.629525$  the conj. axis. Hence the area A F  $\times 8.629525 \times 178539$  &c.  $= 110.9534584$ . Then  $\sqrt{1000 \div 110.9534584} = 3.00213$  yards, the length of the staff as required.

*Ingenious answers were also given by Messrs. Barron, Briant, Brown, Campbell, Craggs, Croudace, Eaton, Francis, Furnass, Gregory, Hewitt, Hornby, Marr, Merones, Rees, Richards, Rowe, Ryley, Scurr, Surtees, Swanwick, Taylor, Walker, Watkins, Wood, Wright, &c.*

## XII. QUEST. (1085) answered.

The general or algebraic solution to this question, will admit of several different forms, viz. according as the ratio or comparison of the contents and weights of the similar beams, is taken from that of the cube of their sides, or the cube of their lengths, or as the product of their length and square of their sides, &c. and yet all of these would yield the same conclusion in numbers. Accordingly all those modes of solution are used by our ingenious correspondents, and we shall therefore endeavour to insert a specimen or two of each, as far as our room will allow.

### 1. The Solution by Mr Wm Burdon.

Most authors, who have written on the strength and stress of timber, shew that when the prism  $x$  will just support itself,  $f w x^3 = m w l^2 + 2 m p l^2$ , and conseq.  $x = l \sqrt{\frac{m}{f w} \times w + 2 p}$ . — For example, a piece of oak 3 feet long, and 1 inch square, will bear in the middle 330 pounds (Dr. Hutton's Dict. pa. 533 vol. 2), and conseq. a beam, 1 foot square, will break of itself if its length exceed  $243\frac{1}{2}$  feet.

### The same, by Mr D. Henry, Preston.

Let  $x$  = the length required, and the rest as given in the question. Then, the weight of similar bodies being as their magnitudes, as  $f^2 l : w :: m^2 x : m^2 x w + f^2 l$  = the weight of the piece wanted. And, in square timber, the strength being as the cube of the depth, and the stress as the length and weight to be born,  $f^3 : (\frac{1}{2} w + p) :: m : m^2 x^2 w + 2 f^2 l$ ;

this turned into an equation, and reduced, gives  $x = l \sqrt{\frac{m}{f w} \times w + 2 p}$ .

Example, If  $l = 3$  feet,  $f = 1$  inch,  $w = 2$  lb,  $p = 210$  lb, and  $m = 12$  inches, the above conclusion gives  $x = 150.957$  feet.

*Ingenious answers were also given by Messrs. Barron, Brown, Craggs, Croudace, Eaton, Furnass, Gregory, Hewitt, Hornby, Hunter, Merones, Priddy, Rowe, Ryley, Scurr, Surtees, Swanwick, Taylor, Walker, Watkins, Wood, Wright, &c.*

## XIII. QUEST.

XIII. QUEST. (1086) *ans. by Mr Geo. Barrett.*

As the time of a vibration, on which the tone depends, is propor. to the diam. and length of the string directly, and as the square root of the tending force inversely; we have  $20 \times \frac{1}{20} \div \sqrt{9} = \frac{1}{3}$  for a standard measure for the times of vibration of all the strings; conseq.  $\frac{1}{3} \times \frac{1}{2} = \frac{1}{6}$  for the proportionate time of vibra. of the 2d string to sound a *greater third* more acute than the 1st;  $\frac{1}{3} \times \frac{2}{3} = \frac{2}{9}$  ditto of the 3d string to sound a *fifth*; and  $\frac{1}{3} \times \frac{1}{2} = \frac{1}{6}$  ditto of the 4th string to sound an *octave*. Hence the times of vibration of the several strings will be to each other in order as  $\frac{1}{3}, \frac{1}{6}, \frac{2}{9}, \& \frac{1}{6}$ , or as 1,  $\frac{1}{2}, \frac{2}{3}$ , and  $\frac{1}{3}$ , agreeable to the times set forth in the diatonic scale. Then if we put  $20x$ ,  $20y$ , and  $20z$ , for the lengths of the 2d, 3d, and 4th strings, their several diameters will be  $\frac{1}{20}x$ ,  $\frac{1}{20}y$ ,  $\frac{1}{20}z$ ; and also their tending forces  $9x$ ,  $9y$ ,  $9z$ . Then, by proceeding in the same manner as in finding the standard measure, we get  $20x \times \frac{1}{20}x \div \sqrt{9x} \text{ or } x^2 \div \sqrt{9x} = \frac{1}{3}$ ; in like manner  $y^2 \div \sqrt{9y} = \frac{1}{6}$ ; and  $z^2 \div \sqrt{9z} = \frac{2}{9}$ ; these three equations, being resolved, give  $x = .8617738$ ,  $y = .763354$ , and  $z = .6299604$ .

Hence the annexed table of the dimensions of the several strings.

	Length.	Diameter.	Tension.
1st string	20	.05	9
2d string	17.235476	.04308869	7.7559642
3d string	15.262708	.03815677	6.8682186
4th string	12.592203	.03145802	5.6696436

*This question was also ingeniously answered by Messrs. Burdon, Craggs, Crow-  
dace, Elliot, Furness, Hornby, Kyle, Watkins, &c. &c.*

XIV. QUESTION (1087), *ans. by Amicus the proposer.*

By what has been done on the subject by Mr Stirling, it appears that the co-tangents of the respective angles made by the equilibrium forces, at the respective centres of the given globes, beginning at the uppermost or key one, are to one another as the numbers 1, 3, 5, 7, 9, 11, 13, &c. And the angle made at the top by the question being  $= 120^\circ$  the cotang. of its half, to radius 1, must be  $= \sqrt{\frac{1}{3}}$ , conseq. the said co-tangents are  $\sqrt{\frac{1}{3}}$ ,  $3\sqrt{\frac{1}{3}}$ ,  $5\sqrt{\frac{1}{3}}$ ,  $7\sqrt{\frac{1}{3}}$ , &c. And as there are 5 globes on each side, besides the key-globe; the two inclined planes serve instead of adding on each side a 6th globe, and theref. the cotang. of their inclination to their horizon, must be the 6th in order here,  $= 11\sqrt{\frac{1}{3}}$   $= 6.350850$  the tang. of  $80^\circ 57' 6''$ , the inclin. of the planes to the horizon. And since the distance of the centres of every two is given  $= 2$ , and the angles made there, it is easily found by trigon. that the distance of the centres of the two bottom ones is  $2\sqrt{3} + 2 + 2\sqrt{\frac{3}{7}} + 2\sqrt{\frac{3}{13}}$   $+ 2\sqrt{\frac{3}{17}}$ , and the height of the centre of the key or top one, above the line joining the centres of the bottom ones,  $= 1 + \sqrt{3} + 5\sqrt{\frac{1}{7}} + 7\sqrt{\frac{1}{13}} + 9\sqrt{\frac{1}{17}}$  as required.

*Ingenious*

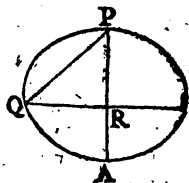
*Ingenious solutions were also given by Messrs Baron, Cole, Craggs, Croudace, Furness, Hornby; Ryley, Sirtees, Walker, Watkins, Wood, Woodhouse, &c. beside one inserted in the Supplement; but we are sorry that want of room obliges us to omit the rest, especially the accurate and elaborate solutions of Mr. Cole and Mr. Craggs.*

XV. Or PRIZE QUESTION (1088), answered by Amicus,

If  $x$  = the abscissa,  $y$  = the corresponding semiordinate of the generating curve, and  $p = 3.14159$  &c. Then, by Simpson's Flux. art. 375, the fluent of  $p y^2 \dot{x}$  must be, by the quest. a given quantity, and the attraction = the fluent of  $2 p \dot{x} (1 - x(x^2 + y^2)^{\frac{1}{2}})$  a maximum. If  $x^2 + y^2 = w^2$ , then, by the general method for isoperimetrical problems, as  $x$  is the quantity, and its flux; to be made invariable (by Simp. Math. Tracts p. 101)  $2 \dot{y} = w \dot{w}$ , and  $2 p y \dot{x} + 2 p x y x \dot{w} w^{-3} = 0$ , consequently,  $w^3 = -c x$ ,  $-w = \sqrt[3]{c x} = -\sqrt{x^2 + y^2}$ ,  $\sqrt[3]{c^2 x^2} = x^2 + y^2$ , or  $y^2 = \sqrt[3]{c^2 x^2} - x^2$ , is the required equation of the curve. Or, making  $x = c^2$ ,  $y^2 = \sqrt[3]{c^4 x^2} - x^2$ , the fluent of  $p y^2 \dot{x}$  or of  $p c^{\frac{2}{3}} x^{\frac{2}{3}} \dot{x} - p x^2 \dot{x}$  is  $\frac{3}{2} p c^{\frac{2}{3}} x^{\frac{5}{3}} - \frac{1}{2} p x^3 =$  the solidity, which when  $x = c$  becomes  $(\frac{3}{2} - \frac{1}{2}) p c^{\frac{2}{3}} = \frac{1}{5} p c^{\frac{2}{3}}$ , or  $\frac{2}{5}$  of the sph. of the same axis  $c$ : From the equat. of the curve,  $y = 0$  both when  $x = 0$  and  $0 = c$ , and  $c$  is the greatest abscissa or axis. And  $y$  is a max. when  $c^{\frac{2}{3}} x^{\frac{5}{3}} - x^3$  is so,  $\frac{2}{3} c^{\frac{2}{3}} x^{\frac{2}{3}} = 2 x$ ,  $\frac{2}{3} c^{\frac{2}{3}} = x^{\frac{4}{3}}$ ,  $x = c (\frac{1}{4}) = c \times .4532063$ ; and thus both the form and content of the solid becomes known.

The same, - by Mr John Ryley, of Leeds.

Let P A be the axe of the solid, made up of the given matter  $m$ , and let Q R be perp. to P A, and join P Q. Then the force of a particle at Q acting on P is as P Q  $^2$ , and P Q : P R :: P Q  $^{-2}$  : P R  $\div$  P Q  $^3$  = the force of Q in the direction P A, which must be a constant quantity, or equal to that at A, when the whole attraction is the greatest, that is  $P R \div P Q^3 = P A^{-2}$ , or  $P R \times P A^2 = P Q^3$ . Now let P R =  $x$ , Q R =  $y$ .



P A =  $a$ ; then  $a^2 \cdot x = (x^2 + y^2)^{\frac{3}{2}}$  or  $y^2 = a^{\frac{4}{3}} x^{\frac{2}{3}} - x^2$ , which expresses the nature of the curve P Q A. To find the content of the solid, put  $x = 3.1416$ , then its flux. =  $c y^2 \dot{x} = c a^{\frac{4}{3}} x^{\frac{2}{3}} \dot{x} - c x^2 \dot{x}$ , whole flu. is  $\frac{3}{2} c a^{\frac{4}{3}} x^{\frac{5}{3}} - \frac{1}{2} c x^3$ , which, when  $x = a$ , becomes  $\frac{1}{5} c a^{\frac{2}{3}} = m$  the given quantity of matter; or  $\frac{2}{5}$  of the sphere of the same axis  $a$ , therefore  $a = \sqrt[3]{15 m \div 4 c}$ .

*Ingenious*

*Ingenious answers were also given by Messrs Geo. Barrett, Rev. J. Furness, J. Hornby, Rob. Shields, Rob. Watkins, W. Surtees, Wm Wood, and by Mr John Carr, whose solution, for want of room, is reluctantly omitted.*

## NEW QUESTIONS.

### I. QUEST. (1089), by P. Panglos.

A pendulum vibrates as often in a minute as it is inches in length. Query what that length is?

### II. QUEST. (1090), by Mr Wm Bewley, Harwickshead.

Having given the base, the sum of the sides, and the vertical angle; to construct the triangle.

### III. QUEST. (1091), by Mr Wm Cole, Colchester.

The front of a house is of such a height, that if a ladder, of a certain length, be placed at the distance of 12 feet from it, the top of the ladder will just reach to the top of the house; but if the ladder be placed 20 feet from the front, its top will fall 4 feet below the top of the house. Required the height of the house and the length of the ladder.

### IV. QUEST. (1092), by Mr S. Hefford, of Albrighton.

Two Bacchanalians being allowed a large copper of ale, its form a conical frustum, standing on the less end, the dimensions of which were, top diam. 5, bottom 3, and depth 6 inches, they could not agree about the division of it; they therefore determined to have a mark made on the side, so that the first, by taking half the liquor, should drink till the bottom edge of the liquor just touched the mark. It is required to find the place for the mark on the side.

### V. QUEST. (1093), by Mr John Blackwell, Hungerford.

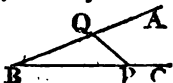
I have a conical piece of dry oak, the base diameter and altitude being 24 and 20 inches, which I connected by its vertex at the bottom of a semispherical vessel of 60 inches diameter. Now I desire to know what is the least quantity of water which must be poured into the said vessel to raise or set the axis of the cone in a vertical position.

### VI. QUEST. (1094), by Mr T. Swanwick, Teacher of Mathematics, Derby.

Required a theorem for finding the time of descent of heavy bodies from vast heights, supposing no resistance: as for example, the moon to the earth, if her projectile force should cease.

### VII. QUEST. (1095), by Mr Wm White, Chaddeysden.

If an indefinite right line BA form a given  $\angle A'BC$  of  $44^\circ$  with a given right line BC = 400 feet; and if a body Q begin to move from B along BA, at the same instant that another body P begins to move from C along CB; the former body moving with an accelerated velocity of 1 foot in the first second, 5 feet the next, 9 the third, &c. and the latter body P with a uniform velocity of 6 feet in a second. To find the time of their nearest approach towards each other, as also their position and distance at that time.

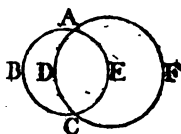


### VIII. QUEST. (1096), by Mr Alex. Rowe, Reginnis.

Suppose the greatest possible square pyramid to be built, having its slant side = 120 feet. It is required to find the side of its base and its perp. altitude, as also the number of bricks requisite to build it, the dimensions of a brick, including the joints of mortar, to be 10 inches to 5, 5 inches broad, and 3 inches thick.

### IX. QUESTION (1097) by Mr O. G. Gregory\*, Teacher of Mathematics, Cambridge.

\* ABCE, in the annexed figure, is a circle whose radius is 10; and ED is the radius of another circle ADCF which cuts off half the former circles. It is required to find the distance between the centres of the greatest squares which can be inscribed in the two lunes A'BCD and AFCE; also the distance between each of these centres and either horn A or C of the lunes.



\* This Gent. has now in the press an ingenious Treatise on the Elements of Astronomy, in Theory and Practice.



### X. QUESTION (1098), by J Macdonald, of Spindleston.

If, in air of the uniform density of that at the earth's surface, a ball of cork, falling from an infinite height, acquire a uniform velocity of 10 feet per second; it is required to find what is its diameter, the specific gravity of cork and air being 240 and  $1\frac{2}{5}$ .

### XI. QUEST. (1099), by Leonardus Pisanus.

To find  $n$ , when  $n^2 + 13$ , and  $n^2 - 13$ , and  $n^2$ , are all three rational squares.

N. B. This is the same as Question 4 in the Diary for 1800, which is repropoed here, as the solutions that were given to it did not find  $N$  rational, as it ought to be.

### XII. QUEST. (1100), by Mr Y. Hewitt, London.

Given the base and Height of a cone, it is required to find the height of the greatest parabolic conoid which can be inscribed in the cone.

### XIII. QUEST. (1101), by Mr John Carr, Gigglewick School.

Mr. Tho. Simpson, in his Miscellaneous Tracts, where he treats of the lunar orbit, assumes the following series, viz.  $x (1 - B \cos \beta x - C \cos \gamma x - D \cos \delta x \&c.)$  for the reciprocal of the moon's distance from the centre of the earth. Quere. is this assumption admissible as a constant expression for the reciprocal of the distance.

### XIV. QUEST. (1102) by Mr J. G.

It is required geometrically to draw the line of quickest descent between the circumferences of two given circles.

### XV. or PRIZE QUESTION (1103), by Amicus.

[To be answered before Feb. 1.]

Suppose a solid, generated by the revolution of a curve about an axis, to be of such a nature, that the solidity of any one cone inscribed in it, so as to stand on the solid's base, and touch its surface, may be the greatest possible; and that when the slant height of such cone is the shortest possible, its length is given. From hence the species, the quadrature, and the rectification of the generating curve, with the cubature and surface of the generated solid, may be found by the help of the conic sections only; and are here required, with the investigation.

\* The prizes for the several solutions have been determined by lot as follows: First, for the Prize Question to Mr John Carr and Mr W Wood, each 10 Diaries. — 2d, for the Prize Enig. to Orville and Mrs. Smith, each 8 Diaries — 3d, for the General Ans. to the Enigmas, to Miss Isabella Smith and Miss A. Wood, each 8 Diaries. — 4th, for the Rebus'es, Queries, &c. to Mr. G. H. Ifitt and Mr John Smith, each 6 Diaries: All of whom will please to send some person in London to call for them, on their account, at Stationers' Hall.

Letters for the use of the Diary to be directed thus, 'To the Author of the Ladies' Diary, Stationers' Hall, London.' Which must be all post-paid or franked otherwise they cannot be received; and the last of them to be sent, at the latest, before the end of April; but those with the solution to the Prize Enigma or Prize Question, before February. 1. And along with all new Questions, Enigmas, Rebus'es, and Charades, their answers must be sent.

ERRAT. In the last Diary. 1a. 46 quest. 3, for 12 inches read 18, and for 60 read 60°. Pa 47 Quest. 7 line 5, for axes r. semiaxes.

In answer to Mr J. Knight's enquiries it is replied, that by Dr Hutton's Geometry, is meant his Elements of Geom. contained in the 1st Vol. of his Course of Mathematics. — A republication of the L. Diary from the year 1773 may not be very soon expected.

**VOX STELLARUM:**  
**OR, A LOYAL**  
**ALMANACK**

**For the Year of HUMAN REDEMPTION,**

**1802,**

**Being the Sixth after BISSEXTILE, or LEAP-YEAR**

**The Forty-second of the Reign of his present MAJESTY,**  
**And the second Year of the 19th Century.**

**In which are contained**

**All THINGS fitting for such a WORK, as**

**A TABLE of TERMS and their RETURNS;**

**The Full, Changes, and Quarters of the MOON;**

**The Rising, Southing, and Setting of the SEVEN STARS,**  
**and other Fixed Stars of Note; the MOON'S Age, and**

**A TIDE TABLE fitted to the same;**

**The Rising and Setting of the SUN; the Rising, Southing,**  
**and Setting of the MOON; Mutual Aspects; Monthly**  
**Observations, and many other Things, useful and profitable,**

**UNTO WHICH ARE ADDED,**

**Astrological Observations on the Four Quarters of the Year**

**A remarkable CHRONOLOGY, and ECLIPSES;**

**And other MATTERS both curious and profitable.**

**Observations on the Barometer, Weather, &c.**

**And an HIEROGLYPHIC added to the TIMES.**

**By FRANCIS MOORE, Physician.**

**L O N D O N**

**Printed for the COMPANY of STATIONERS,**

**By Cox, Son, and Baylis, Great Queen Street, Lincoln's Inn Fields;**

**And sold by GEORGE GREENHILL, at their Hall in Ludgate Street**

**[Price Seventeen Pence, stitched.]**

## JANUARY XXXI Days.

As Troops appointed from all Parts, prepare  
 To march in Order for some cruel War;  
 So do the Stars, by thwarting Motions shew,  
 A Storm at Hand, with blood and ruin too:  
 All must obey when these for Arms prepare;  
 There's Storms in States and Towns as well as Air.

M D	W D	Fasts and Festivals.	☉ vs	☾ Signs	☽ A	☽ D rises and sets	Mutual Asp. and Weather.
1	F	Circumcision	10	hips	27	5 m 13	Cloudy,
2	S	Day br. 5 58	11	thighs	28	6 36	with frost
3	C	S. aft. Christ.	12	knees	29	7 52	and snow
4	M	Tw. ends 6 3	14	hams	N	sets	about this
5	Tu	Day 7 56 l.	15	legs	1	5 a 15	time.
6	W	Epiph. TwDay	16	ankles	2	6 51	
7	Th	[O. Cbr.	17	feet	3	8 24	
8	F	Lucian.	18	and	4	9 50	Δ ½ ♀ Δ ¼ ♀
9	S	Night 15 56 l.	19	toes	5	11 15	Cold and
10	C	S. aft. Epiph.	20	head	6	morn.	windy.
11	M	Plow Monday	21	face	7	0 35	Δ ¼ ♀
12	Tu	Day incr. 26 m.	22	neck	8	1 53	Δ ½ ♀
13	W	Hil. C. T. b. O. N	23	throat	9	3 14	Sleet or
14	Th	Ox. T. b. [Yrs D.	24	arms	10	4 33	showers
15	F	½ rises 7 46 af.	25	and	11	5 43	
16	S	¼ rises 7 35 af.	26	should.	12	6 45	Foggy mists
17	C	S. aft. Epiph.	27	breast	13	7 32	
18	M	Q. Char. b. d. k.	28	stom.	F	rises	
19	Tu	[Prisca	29	heart	15	4 a 41	Rugged
20	W	Fabian	☿	and	16	5 52	weather, but
21	Th	Agnes	1	back	17	7 5	open for the
22	F	Vincent	2	bowels	18	8 15	Δ ¼ ♂
23	S	Hil. Term begins	3	belly	19	9 20	most part.
24	C	S. aft. Epiph.	4	reins	20	10 38	Δ ½ ♂
25	M	Co. v. S. Paul	5	and	21	11 52	
26	Tu	♂ rises 6 10 mo.	6	loins	22	morn.	Sharp frosts,
27	W	P. Aug Fred. b.	7	secret	23	1 10	♂ ☉ ♀
28	Th	♀ rises 7 7 mo.	8	memb.	24	2 33	if not some
29	F	♂ rises 7 58 mo.	9	hips	25	3 58	snow.
30	S	K. Ch. I mait.	10	thighs	26	5 18	
31	C	S. aft. Epiph.	11	knees	27	6 25	

# MOORE. JANUARY, 1802.

3

The 2 day, at 7 aftern. Mars  
 The 3 day, at 1 morn. Venus  
 The 3 day, at 8 morn. Mercury  
 The 21 day, at 11 night, Jupiter  
 The 22 day, at 3 morn. Saturn  
 The 31 day, at 4 aftern. Mars

is with  
 the Moon.

M D	Sun rises	Sun sets	Moon South	Monthly Observations.
1	8 4	3 56	9m 0	<i>Rain fallen in Jan, 1800, at Lon- don, was 2,7 Inches.</i>
2	8 4	3 56	10 1	
C	8 3	3 57	11 6	
4	8 2	3 58	0 2 13	NEW Moon 4th day, at 8 morn.
5	8 2	3 58	1 17	I HERE, as usual, add, from the In- fluences of the Planets, some particular Times, when <i>Snow</i> or <i>Rain</i> may be ex- pected, (more or less) within the Com-
6	8 1	3 59	2 16	
7	8 0	4 0	3 10	
8	7 59	4 1	3 59	
9	7 58	4 2	4 46	
C	7 57	4 3	5 32	FIRST Quart. 10th day, at 12 nt.
11	7 56	4 4	6 17	pasts of three Days; and here set down
12	7 55	4 5	7 4	the middle Day, as follows: The 4th,
13	7 54	4 6	7 53	12th, 19th, and 27th Days of this
14	7 53	4 7	8 44	Month.
15	7 52	4 8	9 36	
16	7 50	4 10	10 28	
C	7 49	4 11	11 19	
18	7 48	4 12	12 8	
19	7 46	4 14	0 8	
20	7 45	4 15	0 54	
21	7 44	4 16	1 37	
22	7 42	4 18	2 18	
23	7 41	4 19	2 58	
C	7 39	4 21	3 37	
25	7 38	4 22	4 17	
26	7 36	4 24	5 0	
27	7 34	4 26	5 46	
28	7 33	4 27	6 36	
29	7 31	4 29	7 33	
30	7 30	4 30	8 34	
C	7 28	4 32	9 40	

*Courteous Reader,*

UNDER the Monthly Observations

FULL Moon 18th day, at 10 night.

of each Month, I have given you the  
 Depth of *Rain* fallen at LONDON, dur-  
 ing the Year 1803, as it was taken by  
 a proper Instrument, and is set down  
 in Inches, and Decimal Parts of an  
 Inch, and is what it would have been,  
 had it stagnated on an even surface of

LAST Quart. 27th day, at 1 morn.

the Earth, and not been inhibited there-  
 by, or lessened by Evaporation. Un-  
 de

See how the Spheres for ruffling Jars are set,  
 By Nature's Laws, a Crowd of Causes met.  
 The when or what in mystick Motion lies;  
 Thus mighty Bodies from small Seeds arise:  
 Here's Wrath and Fury lodg'd (not understood)  
 To wound the Wicked and to fright the Good.

M W	D D	Fasts and Festivals.	☉	☿'s Signs	☽ rises and sets	Mutual Asp. and Weather.
1	M	Day br. 5 30	12	hams	28 7 m 12	Seasonable
2	Tu	<b>Pur. or Candle.</b>	13	legs	N 12	weather be-
3	W	<i>Blase</i>	14	ances	1 5 a 4	gins the
4	Th	Tw. ends 6 34	15	feet	2 7 15	month.
5	F	<i>Agatha</i>	16	toes	3 8 42	
6	S	Day 9 28 long	17	head	4 10 7	Windy,
7		<b>C &amp; S. aft. Epiph.</b>	18	face	5 11 31	frosty, un-
8	M	Night 14 28 l.	19	neck	6 morn.	constant
9	Tu	Day incr. 1 49	20	throat	7 0 54	weather.
10	W	h rises 5 53 af	21	arms	8 2 13	8 4 ♀
11	Th	h rises 5 32 at.	22	and	9 3 29	
12	F	<i>Hil. Term ends</i>	23	should.	10 4 35	8 5 ♀
13	S	♂ rises 5 48 af.	24	breast	11 5 26	Snow, or
14		<b>C Septuag.</b> <i>Valen.</i>	25	stom.	12 6 7	some cold
15	M	<b>O. Cand.</b>	26	heart	13 6 33	rains.
16	Tu	♀ rises 6 53 m.	27	and	14 6 53	
17	W	♀ sets 6 28 af.	28	back	F rises	
18	Th	Day br. 5 3	29	bowels	16 5 a 59	Frosty and
19	F	Tw. ends 6 59	30	belly	17 7 14	3 0 4
20	S	Day 10 16 long	1	reins	18 8 29	more fair.
21		<b>C Sexagesima S.</b>	2	ind	19 9 40	
22	M	Night 13 36 l.	3	oins	20 10 57	
23	Tu	Day incr. 2 44	4	secret	21 morn.	8 0 1/2 Frost
24	W	<b>St. Mat. Pr. A.</b>	5	nemb.	22 0 18	8 4 ♀
25	F	<i>C. T. d. m.</i> <b>[Fr. b.]</b>	6	hips	23 1 40	and snow
26	F	h rises 4 43 af.	6	thighs	24 3 2	may now be
27	S	h rises 4 19 af.	8	knees	25 4 12	8 5 ♀
28		<b>C Shro. or Quin-</b>	9	hams	26 5 5	expected.
		<b>[Quag. Sund.]</b>				

JUPITER will be an Evening Star till Sept. 9; then a Morning Star for the rest of the Year.

The 1 day, at 12 night, Venus  
 The 3 day, at 2 morn. Mercury  
 The 17 day, at 11 night, Jupiter  
 The 18 day, at 6 morn. Saturn

} is with  
 the Moon.

M	Sun rises	Sun sets	Moon South.	Monthly Observations.
1	7 26	4 34	10 44	<i>Rain fallen in Feb. 1800, at Lon-</i>
2	7 25	4 35	11 48	<i>NEW Moon, 2 day, at 7 even.</i>
3	7 23	4 37	0 2 46	
4	7 21	4 39	1 30	<i>Don, was only two-tenths of an Inch.</i>
5	7 19	4 41	2 29	<i>Some Rain or Snow. (more or less)</i>
6	7 18	4 42	3 17	<i>about the 9th, 12th, 23d, and 27th</i>
C	7 16	4 44	4 5	<i>Days of this Month, the Day before</i>
8	7 14	4 46	4 53	<i>or the Day after.</i>
9	7 12	4 48	5 43	<b>FIRST Quart. 9 day, at 2 aftern.</b>
10	7 10	4 50	6 34	
11	7 9	4 51	7 27	<i>der this, I have put down, as here-</i>
12	7 7	4 53	8 19	<i>tofore, some particular Days in each</i>
13	7 5	4 55	9 11	<i>Month, when I expect Rain or</i>
C	7 3	4 57	10 1	<i>Snow (more or less), within the short</i>
15	7 1	4 59	10 48	<i>Compass of three Days, deduced from</i>
16	6 59	5 1	11 32	<i>my Observations of the Planets, to-</i>
17	6 57	5 3	morn.	<b>FULL Moon 17 day, at 5 aftern.</b>
18	6 55	5 5	0 15	
19	6 53	5 7	0 55	<i>gether with the MOON's Influence on</i>
20	6 52	5 8	1 35	<i>the Atmosphere, in the different Parts</i>
C	6 50	5 10	2 15	<i>of her Orbit. They are given for the</i>
22	6 48	5 12	2 57	<i>Use and Information of the plain Hip-</i>
23	6 46	5 14	3 42	<i>bandman, as well as for the more</i>
24	6 44	5 16	4 30	<i>curious Reader, and to be classed with</i>
25	6 42	5 18	5 23	<b>LAST Quart. 25 day, at 2 aftern.</b>
26	6 40	5 20	6 21	<i>the Indications of a good WEATHER</i>
27	6 38	5 22	7 23	<b>GLASS.</b>
C	6 36	5 24	8 26	

VENUS is a Morning Star till March 17; then an Evening Star to the End of the Year.

From Court to Court Expresses briskly fly;  
 Great Offers made to purchase Peace thereby;  
 All give their Wishes to its ling'ring Birth,  
 And hope it too, to ease the groaning Earth;  
 Yet all their Wishes prove but empty Show,  
 Like nick-nam'd Saints they seem, but are not so.

D	W	Fasts and F. tivals.	☉	☾'s Signs	D	D rises and sets	Mutual Asp. and Weather.
1	M	David	10	legs	27	5 m 44	March
2	Tu	S. re. T. Chad	11	ankles	28	6 8	begins
3	W	Alh Wedn.	12	feet	29	6 26	stormy
4	Th	♂ rises 5 19 m.	13	toes	N	sets	☉ eclipsed inv.
5	F	♀ rises 6 31 m.	14	head	1	7 a 37	with sleet or
6	S	♂ sets 7 10 af.	15	face	2	9 4	showers.
7	C	1 S. in Lt. Per	16	neck	3	10 32	
8	M	[petua	17	and	4	11 58	
9	Tu	Day br. 4 26	18	throat	5	morn	Moderate
10	W	Ember Week	19	arms	6	1 18	weather
11	Th	Twi. ends 7 39	20	should.	7	2 29	new
12	F	Gregory	21	breast	8	3 28	♂ ☉ ♀, ♂ ♀ ♀
13	S	Day 11 40 l.	22	and	9	4 11	about.
14	C	2 Sun. in Lent	23	stom.	10	4 41	
15	M	Night 12 12 l.	24	heart	11	5 4	Brisk winds,
16	Tu	Day incr. 4 13	25	back	12	5 21	and perhaps
17	W	St. Patrick	26	bowels	13	5 34	some
18	Th	Edw. K. W. S.	27	and	14	5 46	showers of
19	F	♂ sets 5 36 m.	28	belly	F	rises	☉ eclipsed inv.
20	S	♀ sets 5 19 m.	29	reins	16	7 a 38	♂ ☉ ♀
21	C	3 Sun. in Lent	☿	loins	17	8 51	rain.
22	M	[Benedict.	1	secret	18	10 11	
23	Tu	♂ rises 4 44 m.	2	mem-	19	11 35	No great
24	W	♀ rises 6 0 m.	3	bers	20	morn.	alteration
25	Th	Lady Day	4	hips	21	0 58	as yet.
26	F	♂ rises 5 4 m.	5	thighs	22	2 8	Fine and
27	S	Day br. 3 45	6	knees	23	3 8	more
28	C	Midlent Sund.	7	hams	24	3 50	pleasant,
29	M	Twi. ends 8 20	8	legs	25	4 17	perhaps
30	Tu	Day 12 46 l.	9	ankles	26	4 37	some frosty
31	W	Night 11 12 l.	10	feet	27	4 53	nights.

# MOORE. MARCH, 1802.

7

The 1 day, at 1 aftern Mars  
 The 3 day, at 11 night, Venus  
 The 5 day, at 3 morn. Mercury  
 The 14 day, at 12 morn. Jupiter  
 The 17 day, at 8 morn. Saturn  
 The 30 day, at 11 morn. Mars

is with  
the Moon.

M D	Sun rises	Sun sets	Moon South.	Monthly Observations.
1	6 34	5 26	9 m 29	<i>Rain fallen in March 1800, at London, was only three tenths of an Inch. Some Rain or Snow (more or less)</i>
2	6 32	5 28	10 28	
3	6 30	5 30	11 24	
4	6 28	5 32	0 a 16	NEW Moon 4th day, at 5 morn.
5	6 26	5 34	1 7	about the 4th, 14th, 19th and 24th Days of this Month; the Day before or the Day after.
6	6 24	5 36	1 56	
C 6	6 22	5 38	2 46	
8	6 20	5 40	3 37	
9	6 18	5 42	4 29	FIRST Quart. 11 day, at 6 morn.
10	6 16	5 44	5 23	
11	6 14	5 46	6 17	
12	6 12	5 48	7 10	GLASS, which no Farmer or Grazier especially, ought to be without.
13	6 10	5 50	8 1	
C 14	6 8	5 52	8 49	
15	6 6	5 54	9 35	<i>Astrological Observations and Predictions respecting Mundane Affairs.</i>
16	6 4	5 56	10 18	
17	6 2	5 58	10 59	
18	6 0	6 0	11 40	
19	5 58	6 2	morn.	FULL Moon 19th day, at 11 morn.
20	5 56	6 4	0 21	from the Influx of the Planets, &c.
C 21	5 54	6 6	1 2	
22	5 52	6 8	1 46	If it be not otherwise decreed by the great God of Nature himself in his secret and unknown Determination as unto Man, then I say, that though
23	5 50	6 10	2 34	
24	5 48	6 12	3 26	
25	5 46	6 14	4 22	
26	5 44	6 16	5 21	LAST Quart 26th day, at 11 night
27	5 42	6 18	6 23	we may seem near this Time in some leviness, I mean the whole Kingdom at large, yet the Heavens promise Mercies for Peace, and an Opportunity
C 28	5 40	6 20	7 24	
29	5 39	6 21	8 22	
30	5 37	6 23	9 18	
31	5 36	6 25	10 10	



Saturn and Mars oppos'd, doth now dispenſe  
 Troubles and Miſchiefs arm'd with Violence:  
 A Man of War doth ſeldom die with Care,  
 The Soldier's Harveſt now holds all the Year;  
 They're mov'd like Puppets, kill and murder thus;  
 We ſee 'tis done, but how? that's hid from us.

M D	W D	Faſts and Fefſtivals.	☉ ☿	☿'s Signs	D A	D riſes and ſets	Mortal Aſp. and Weather.
1	Tu	Day incr. 5 10	11	toes	28	5 m '8	8 24 ♂ Now
2	F	½ fets 4 44 m.	12	head	N	fets	expect ſome
3	S	<i>Richard</i>	13	face	1	8 a 8	fruitful
4	C	5 S. in Lent	14	neck	2	9 3	ſhowers.
5	M	[ <i>Ambroſe</i>	15	throat	3	11 8	
6	Tu	<i>Old Lady Day</i>	16	arms	4	morn.	
7	W	24 fets 4 13 m.	17	ſhould.	5	0 10	8 ½ ♂
8	Th	♂ riſes 4 12 m.	18	breast	6	1 24	Thunder
9	F	<i>Camb. T. ends</i>	19	and	7	2 15	in ſome
10	S	<i>Oxf. T. ends</i>	20	itom.	8	2 52	Δ 24 ♀
11	C	<i>Palm Sunday</i>	21	heart	9	3 17	places
12	M	♀ fets 7 22 af.	22	back	10	3 36	now about,
13	Tu	♂ riſes 4 40 m.	23	bowels	11	3 50	with hail
14	W	Da. br. 2 57	24	and	12	4 1	Δ ½ ♀
15	Th	<i>Maundy Thursday</i>	25	belly	13	4 12	and rain.
16	F	<i>Good Friday</i>	26	reins	14	4 22	Δ ☉ 24
17	S	<i>Tw. ends</i> 9 11	27	oins	15	4 33	Good ſpring
18	C	<i>Eaſter Day</i>	28	ſecret	F	riſes	weather
19	M	<i>Eaſter Mond.</i>	29	<i>Alph.</i>	17	9 a 25	tho' cold.
20	Th	<i>Eaſter Tueſd.</i>	30	memb.	18	10 50	
21	W	Day 14 12 l.	1	hips	19	morn.	Δ ☉ ½
22	Th	Night 9 48 l.	2	chighs	20	0 9	Cloudy and
23	F	<i>St. George</i>	3	knees	21	1 12	dull, and
24	S	Day incr. 6 39	4	hams	22	1 57	perhaps
25	C	<i>Low S. St. Mk.</i>	5	legs	23	2 28	ſome gentle
26	M	[ <i>Prs. Ma. b.</i>	6	ances	24	2 50	froſts.
27	Tu	½ fets 2 57 m.	7	feet	25	3 7	* ♂ ♀
28	W	<i>Oxf. &amp; G. T. b.</i>	8	oes	26	3 21	
29	Th	24 fets 2 49 m.	9	head	27	3 33	Cold and
30	F	♂ riſes 3 20 m.	10	face	28	3 46	ſtormy.

The 2 day, at 11 night, Venus  
 The 10 day, at 2 aftern. Jupiter  
 The 13 day, at 12 morn. Saturn  
 The 28 day, at 7 morn. Mars  
 The 30 day, at 2 aftern. Mercury.

is with the Moon.

M	Sun	Sun	Moon	Monthly Observations.
Drises	ets	South.		
1	5 33	6 27	1 11	Rain fallen in April 1800, at Lon-
2	5 31	6 26	1 30	NEW Moon, 2 day, at 3 aftern.
3	5 29	6 31	0 40	don, was 3, 1 Inches. This was a very
C	5 27	6 33	1 37	rainy Month.
5	5 25	6 35	2 24	Some Rain or Sleet (more or less)
6	5 23	6 37	3 19	on the 3d, 7th, 14th, 21st, and 27th
7	5 21	6 39	4 14	Days of this Month; the Day before
8	5 19	6 41	5 09	or the Day after.
9	5 17	6 43	6 02	FIRST Quart, 9 day, at 12 night
10	5 15	6 45	6 52	
C	5 13	6 47	7 39	of settling of our Affairs, both foreign
12	5 11	6 49	8 22	and domestic, by Means of such as are
13	5 9	6 51	9 04	either Agents, Ambassadors, or the
14	5 7	6 53	9 45	like. English Nation, be cheerful; not
15	5 5	6 55	10 25	Holland, nor France, nor Spain; nor the
16	5 4	6 56	11 07	secret Compliances of any other Na-
17	5 2	6 58	11 51	
C	5 0	7 0	12 31	FULL Moon, 18 day, at 3 morn.
19	4 58	7 02	0 38	tions, are able to molest us by a suc-
20	4 56	7 04	1 29	cessful Invasion. Our Merchants'
21	4 54	7 06	2 24	Goods come Home safe; we often
22	4 52	7 08	3 23	vanish our Enemies; our Sea Forces are
23	4 50	7 10	4 24	rampant; our Navy well conditioned.
24	4 49	7 11	5 25	
C	4 47	7 13	6 25	LAST Quart. 25 day, at 6 morn.
26	4 45	7 15	7 18	It is apparent, that many worthy Eng-
27	4 43	7 17	8 10	lish in several Places, according to their
28	4 41	7 19	9 08	Employment, act their Parts with
29	4 40	7 20	9 47	much Resolution for the Honour of the
30	4 38	7 22	10 36	Nation,

The verdant Spring leads on the approaching Year,  
 Yet Marks of Ruin in strange Shapes appear;  
 Mars, Jove, and Saturn, now in Council sit,  
 And will produce what Heav'n and God think fit.  
 Some great Design or Stratagem is laid,  
 Some Town besieg'd, Castle or Fort betray'd.

M	W	Fasts and Festivals.	☉ D's Signs	D rises and sets	Mutual Asp. and Weather
1	S	St. Phil. & Jam.	10 neck	20 3m 59	Cold and
2	C	St. aft. Easter	11 throat	N sets	windy, with
3	M	Inv. of Crofs	12 arms	1 9 a 56	△ 24 ☿
4	Tu	☿ sets 8 37 af.	13 and	2 11 14	□ 24 ♀
5	W	Easter Term b.	14 should.	3 morn.	△ 12 ☿
6	Th	John E. A.P.L.	15 breast	4 0 11	showers of
7	F	☿ rises 4 10 m.	16 stom.	5 0 55	rain.
8	S	Day br. 1 41	17 heart	6 1 24	□ 12 ♀
9	C	St. aft. Easter	18 and	7 1 44	Rather cool,
10	M	Tw. ends 10 32	19 back	8 2 0	yet very
11	Tu	Day 15 22 l.	20 bowels	9 2 13	good spring
12	W	Night 8 36 l.	21 belly	10 2 24	weather.
13	Th	Old May Day	22 reins	11 2 34	
14	F	Day incr. 7 48	23 and	12 2 43	
15	S	☿ sets 2 0 m.	24 loins	13 2 55	Brisk winds
16	C	St. aft. Easter	25 secret	14 3 9	with showers.
17	M	Prs. of Walesb.	26 memb.	F rises.	{ △ 24 ☿
18	Tu	☿ sets 1 38 m.	27 hips	16 9 a 54	{ * 24 ☿
19	W	Q. Ch. b. [Dunf]	28 thighs	17 11 3	{ □ 24 ☿
20	Th	☿ rises 2 27 m.	29 knees	18 11 57	□ 12 ☿
21	F	☿ sets 9 27 af.	11 hams	19 morn.	* 12 ☿
22	S	Prs. Eliz. born	1 legs	20 0 32	□ 12 ☿
23	C	Ascension Sun.	2 ancles	21 0 57	of rain.
24	M	☿ rises 4 8 m.	3 feet	22 1 14	
25	Tu	Day 16 0 16	3 toes	23 1 29	Thunder in
26	W	August Abp.	4 head	24 1 40	some places
27	Th	Asc. Holy Th.	5 and	25 1 53	now about,
28	F	[Ven Bede]	6 face	26 2 7	with showers.
29	S	SK. Ch. II rest.	7 neck	27 2 21	Fair and dry
30	C	Sun. aft. Asc.	8 throat	28 2 41	* 24 ♀
31	M	Easter Term e.	9 arms	N sets	at the end.

The 2 day, at 12 night, Venus  
 The 10 day, at 1 aftern. Jupiter  
 The 10 day, at 8 aftern. Saturn  
 The 27 day, at 2 morn. Mars

is with  
 the Moon.

M D	Sun rises	Sun sets	Moon South	Monthly Observations.
1	4 36	7 24	11 m 25	<i>Rain fallen in May, 1800, was 1,</i>
C	4 34	7 26	0 a 17	NEW Moon 2 day, at 2 morn.
3	4 33	7 27	1 11	<i>Inches, at London.</i>
4	4 31	7 29	2 7	Some Rain (more or less) on the 4th
5	4 29	7 31	3 3	8th, 18th, and 21st Days of this
6	4 27	7 33	3 57	Month; the Day before or the Day
7	4 26	7 34	4 49	after.
8	4 24	7 36	5 37	
C	4 23	7 37	6 22	FIRST Quart. 9 day, at 7 aftern.
10	4 21	7 39	7 4	Nation; yet I must say, and am sorry
11	4 19	7 41	7 45	to have it to say, that the untoward
12	4 18	7 42	8 25	Oppositions of Jupiter and Mars, and
13	4 16	7 44	9 5	Saturn and Mars, the Beginning of
14	4 15	7 45	9 48	April, are Aspects that will stir up the
15	4 13	7 47	10 33	Minds of Men to Fury and Contem-
C	4 12	7 48	11 23	tions; there will be many contradictory
17	4 10	7 50	morn.	FULL Moon 17 day, at 3 aftern.
18	4 9	7 51	0 17	Councils and Disputes, also many need-
19	4 8	7 52	1 16	less Consultations and Debates, whence
20	4 6	7 54	2 18	little or nothing of Good come; many
21	4 5	7 55	3 20	Contentions and Divisions too fre-
22	4 4	7 56	4 20	quently break out among many of the
C	4 2	7 58	5 16	LAST Quart. 24 day, at 11 morn.
24	4 1	7 59	6 8	European Parts of the World. When
25	4 0	8 0	6 57	Armies are in the Field, Blows may
26	3 59	8 1	7 44	be expected. This will prove a Month
27	3 58	8 2	8 31	full of Councils.
28	3 57	8 3	9 19	
29	3 55	8 5	10 8	
C	3 54	8 6	11 0	NEW Moon 31 day, at 1 aftern.
31	3 53	8 7	11 55	

From all Parts, Sea and Land, methinks, I see  
 The dreadful Signs of Death and Destiny.  
 View this Year's Rays, see how the Stars prepare  
 For all the Cruelty that's bred in War,  
 For Arms and Armies, the wild Crowd to awe;  
 Swords, Spears and Guns, Defiance bid to Law.

M D	W D	Fasts and Festivals.	☉ II	D's Signs	D A	D rises and sets	Mutual Asp. and Weather
1	T	Nicomede	10	should.	1	9 a 59	Fair and hot
2	W	All day, or tw.	11	breast	2	10 48	* ♀ * 24 ♀
3	Th	Qr. J. e. Cam. d.	12	ind	3	11 22	about this
4	F	K. Geo. III. b.	13	stom.	4	11 45	* ♀
5	S	D. of Cumb. b.	14	Bonif.	5	morn.	time.
6	S	Whit Sunday	15	back	6	0 3	
7	M	Whit Monday	16	bowels	7	0 16	
8	Tu	Whit Tuesday	17	and	8	0 28	Cloudy and
9	W	Ember Week	18	belly	9	0 38	more cool,
10	Th	light till the	19	reins	10	0 48	♂ ♀ ♀
11	F	St. Barnabas	20	loins	11	0 58	perhaps
12	S	23d of July.	21	'ecret	12	1 10	some flying
13	C	Trin. Sunday	22	memb.	13	1 20	showers.
14	M	Day 16 32 l.	23	hips	14	1 47	
15	Tu	Night 7 28 l.	24	thighs	F	rises	* ☉ ♂
16	W	Oxford T. beg.	25	knees	16	9 a 46	Fair and hot,
17	Th	St. Alb. Cor. Ch.	26	hams	17	10 29	perhaps
18	F	Tr. Term b.	27	legs	18	10 57	thunder in
19	S	Day intr. 8 50	28	and	19	11 15	some places.
20	C	15 a. Tr. Edw.	29	ankles	20	11 32	
21	M	Longest Day	30	feet	21	11 44	
22	Tu	Day 16 34 l.	0	toes	22	11 56	* ☉ 24
23	W	Night 7 26 l.	1	head	23	morn.	Cooling
24	Th	Nat. J. Bapt.	2	face	24	0 8	* ☉ ♀ gates
25	F	♂ sets 11 14 a.	3	neck	25	0 22	Δ 24 ♂ of
26	S	2 ♀ sets 11 3 a.	4	throat	26	0 40	wind.
27	C	15 a. Tr. Trin.	5	arms	27	1 5	Showers at
28	M	♂ rises 0 36 m.	6	should.	28	1 36	Δ ♀ ♂
29	Tu	St. Peter	7	breast	29	2 24	□ ♂ ♀
30	W	2 ♀ sets 9 57 a.	8	and	N	sets	the end.

The 1 day, at 8 aftern. Mercury  
 The 2 day, at 5 morn. Venus  
 The 6 day, at 12 night, Jupiter  
 The 7 day, at 6 morn. Saturn  
 The 24 day, at 9 night, Mars

is with  
 the Moon.

M D	Sun rises	Sun sets	Moon South.	Monthly Observations.
1	3 52	8 8	0 2 50	'Rain fallen in June, 1800, at Lon
2	3 52	8 8	1 46	don, was 1 Inch. This Month wa
3	3 51	8 9	2 38	cool for the Season.
4	3 50	8 10	3 28	Some Rain (more or less) on th
5	3 49	8 11	4 14	1st, 10th, 19th, and 29th Days of thi
C	3 48	8 12	4 57	Month; the Day before or the Da
7	3 48	8 12	5 38	after.
8	3 47	8 13	6 17	FIRST Quart. 8 day, at 1 aftern.
9	3 46	8 14	6 57	
10	3 46	8 14	7 38	Many Countries would gladly bea
11	3 45	8 15	8 21	Peace; but God is King, and rule
12	3 45	8 15	9 8	all the Nations of the Earth, an
C	3 44	8 16	10 0	therefore, let none say they have gotte
14	3 44	8 16	10 58	the Land by their own Sword. Th
15	3 44	8 16	morn.	Stars in their Courses fought again
16	3 43	8 17	0 0	FULL Moon 15 day, at 12 night.
17	3 43	8 17	1 3	Sisera; they have an Influence ove
18	3 43	8 17	2 6	sublunary Things.
19	3 43	8 17	3 5	From Eastern Countries, I greatly fear
C	3 43	8 17	3 59	We shall of Broils and Bloodshed
21	3 43	8 17	4 50	quickly hear.
22	3 43	8 17	5 38	LAST Quart. 22 day, at 4 aftern.
23	3 43	8 17	6 25	
24	3 43	8 17	7 11	The Aspects of this Month are mo
25	3 43	8 17	8 0	of them of a benevolent nature. B
26	3 44	8 16	8 50	the Wisdom of the Nation, prying clo
C	3 44	8 16	9 43	into former Miscarriages, we are l
28	3 44	8 16	10 37	Hopes all may be set right, notwith
29	3 45	8 15	11 32	standing the Endeavours of the Enc
30	3 45	8 15	0 2 26	mies of our King and Kingdom
				NEW Moon 30 day, at 1 morn.

Heav'n's artful Hand, and th' all-seeing Eye,  
Drive on the Storms, where Crowds of Matter lie.  
They gather slowly, a large Compass take,  
And when all's fit, they violently break,  
And scatter Sparks of Mischief as they go  
From Europe's Shores to thole of Mexico.

M	W	Fasts and	☉	D's	D	D rises	Mutual A/p.
D	D	Festivals.	☿	Signs	A	and sets	and Weather.
1	Th	☿ sets 9 16 a.	9	stom.		9 a 43	Now expect
2	F	<i>Visit. of the V.M</i>	10	heart	2	10 3	some
3	S	<i>Dog Days begin</i>	11	back	3	10 18	showers of
4	C 3	<i>S. aft. Trin.</i>	12	bowels	4	10 29	rain.
5	M	<i>[Tran. St. Mar. 13]</i>	13	and	5	10 39	
6	Tu	<i>Cam. Com. O. Mid.</i>	14	belly	6	10 48	Fair and hot
7	W	<i>Tr. Term ends</i>	15	reins	7	10 58	about this
8	Th	<i>[T. à Beck. 16]</i>	16	toins	8	11 9	time.
9	F	<i>Cam. Term ends</i>	16	secret	9	11 24	
10	S	<i>Day 16 16 l.</i>	17	mem-	10	11 43	
11	C 4	<i>S. aft. Trin.</i>	18	bers	11	morn.	Brisk winds
12	M	<i>Oxford Aſ</i>	19	hips	12	0 10	and inclined
13	Tu	<i>Night 7 50 l.</i>	20	thighs	13	0 52	to dryness.
14	W	<i>Day decr. 0 26</i>	21	knees	14	1 53	
15	Th	<i>Swithin</i>	22	hams	F	rises	
16	F	☿ sets 9 51 aft.	23	legs	16	9 a 14	☉ ☿ 24
17	S	<i>Oxf. Term ends</i>	24	ances	17	9 32	Thunder
18	C 5	<i>S. aft. Trin.</i>	25	feet	18	9 46	showers
19	M	☿ sets 9 36 aft.	26	roes	19	9 59	☉ ☿
20	Tu	<i>Margaret</i>	27	head	20	0 10	about this
21	W	☿ rises 11 36 a.	28	face	21	10 25	time.
22	Th	<i>Mary Magdalen</i>	29	neck	22	10 41	
23	F	☿ sets 9 21 aft.	☿	throat	23	11 4	More hot,
24	S	☿ rises 3 36 m.	1	arms	24	11 34	but not
25	C 6	<i>S. a. Tr. St. Ja.</i>	2	and	25	morn.	with out
26	M	<i>Anne</i>	3	should.	26	0 15	☉ ☿ ☿ some
27	Tu	<i>Day br. 0 57</i>	4	breast.	27	1 11	☉ ☿ ☿
28	W	<i>Two ends 10 48</i>	5	stom.	28	2 17	☉ 24 ☿
29	Th	<i>Day 10 30 l.</i>	6	heart	N	sets	cooling
30		<i>Night 8 30 l.</i>	7	and	☿	8 a 22	showers.
31	S	<i>Day decr. 1 10</i>	7	back	2	8 34	

The 1 day, at 12 night, Mercury  
 The 2 day, at 12 morn. Venus  
 The 4 day, at 4 aftern. Jupiter  
 The 4 day, at 5 aftern. Saturn  
 The 25 day, at 2 aftern. Mars

is with  
 the Moon.

M D	Sun rises	Sun sets	Moon South.	Monthly Observations
1	3 46	8 14	1 16	<i>Rain, none measurable in July, 1800.</i>
2	3 46	8 14	2 4	<i>This was a remarkable Month, both for</i>
3	3 47	8 13	2 48	<i>the great Weight and Dryness of the</i>
C	3 47	8 13	3 29	<i>Atmosphere as well as for its Heat.</i>
5	3 48	8 12	4 8	Some Rain (more or less) on the
6	3 49	8 11	4 47	9th, 16th, 25th and 30th Days of this
7	3 49	8 11	5 27	
8	3 50	8 10	6 8	FIRST Quart. 8 day, at 5 morn.
9	3 51	8 9	6 53	Month; the Day before or the Day
10	3 52	8 8	7 42	after.
C	3 53	8 7	8 36	
12	3 54	8 6	9 35	to the contrary. — In this Month
13	3 55	8 5	10 39	happens the grand $\odot$ of 24 and 7,
14	3 56	8 4	11 43	FULL Moon 15 day, at 7 morn.
15	3 57	8 3	morn.	
16	3 58	8 2	0 45	which implies Insurrections, popular
17	3 59	8 1	1 43	Murmurings, and Augmentation of
C	4 0	8 0	2 38	Wars, Tumults and Commotions.
19	4 1	7 59	3 28	Dearth of Corn, and Destruction of
20	4 2	7 57	4 17	
21	4 3	7 56	5 4	LAST Quart. 21 day, at 10 night.
22	4 4	7 55	5 53	Cattle, great and small: Piracies by
23	4 5	7 53	6 43	Sea; Fires and Robberies by Land;
24	4 7	7 52	7 35	strange and unusual Diseases in Man:
C	4 8	7 51	8 29	These Effects are likely to fall upon
26	4 11	7 49	9 23	France, but I hope Great Britain will
27	4 12	7 48	10 17	be free. — We may undoubtedly hear
28	4 14	7 46	11 9	NEW Moon 29 day, at 3 aftern.
29	4 15	7 45	11 57	of many Actions cunningly con-
30	4 17	7 43	12 43	trived; lying Reports and scurril-
31	4 18	7 42	1 25	



Still doth the Rage of human skill appear,  
 In scatter'd Curses and the Plague of War.  
 Still fresh Attempts, design'd as heretofore,  
 How to outdo what's past; and murder more.  
 Here's Anger, Discord, Fury, Fear, Mistake,  
 And all besides that can Man's Ruin make.

M D	W D	Fasts and Festivals.	☉ ♈	☿ ♉	♊ ♋	♌ ♍	Mortal Affs and Weather.
1	C	S. aft. Trin.	8	Bowels	3	8 a 45	Gentle
2	M	Lammas Day	9	belly	4	8 50	showers.
3	Tu	h sets 8 43 aft.	10	reins	5	9 5	
4	W	4 sets 8 38 aft.	11	and	6	9 15	Hot with
5	Th	☿ rises 11 2 a.	12	bins	7	9 28	drying
6	F	Transfiguration	13	secret	8	9 43	winds.
7	S	Prs. Amel. b.	14	memb.	9	10 7	Name of Jesus
8	C	S. aft. Trin.	15	hips	10	10 41	
9	M	☿ sets 8 43 aft.	16	thighs	11	11 31	
10	Tu	Lawrence	17	knees	12	morn.	Now wind
11	W	Os. Brunfw. b.	18	D.D.c.	13	0 42	and some
12	Th	Pr. of Wales b.	19	hams	14	2 13	showers may
13	F	Old Lam. Day	20	anclcs	15	rises	be expected.
14	S	☿ rises 3 4 m.	21	feet	16	7 a 52	
15	C	S. aft. Trin.	22	Assum.	17	8 6	* ☿ ☿
16	M	D. of York b.	23	head	18	8 18	
17	Tu	Day br. 2 21	24	face	19	8 32	
18	W	Tw. ends 9 35	25	neck	20	8 50	Hot, with
19	Th	Day 14 20 L.	26	and	21	9 70	thunder
20	F	Night 9 44 l.	27	throat	22	9 39	☐ ☿ ☿
21	S	D. of Charen. b.	28	arms	23	10 17	showers.
22	C	S. aft. Trin.	29	should.	24	11 8	
23	M	Day decr. 2 30	30	breast	25	morn.	Fine wea-
24	Tu	St. Bartholom.	1	stom.	26	0 11	ther for the
25	W	h sets 7 25 aft.	2	heart	27	1 23	most part
26	Th	4 sets 7 25 aft.	3	and	28	2 37	△ ☿ ☿
27	F		4	back	29	3 51	
28	C	Augustine of H.	5	bowels	30	sets	☉ eclip. visible
29	S	119. A. Tr. Beh.	6	belly	1	7 a 8	☐ 2 ☿
30	M	{ J. Bap.	7	reins	2	7 18	Thunder in
31	Tu	☿ rises 10 13 a.	8	and	3	7 29	some places.

# MOORE. AUGUST, 1802.

17

The 1 day, at 6 morn. Saturn  
 The 1 day, at 9 morn. Jupiter  
 The 1 day, at 8 aftern. Venus  
 The 21 day, at 6 morn. Mars  
 The 27 day, at 8 aftern. Mercury  
 The 28 day, at 7 aftern. Saturn

is with  
 the Moon.

M D	Sun rises	Sun sets	Moon South.	Monthly Observations.
C	4 20	7 40	2 a 5	Rain fallen in August, 1800, at
2	4 21	7 39	2 41	London, was 1,6 Inches.
3	4 23	7 37	3 23	The great Heat and Drought con
4	4 24	7 36	4 3	tinued to the 19th of August, when
5	4 26	7 34	4 46	Thunder Storm commenced.
6	4 28	7 32	5 32	FIRST Quart. 6 day, at 7 aftern.
7	4 29	7 31	6 23	
C	4 31	7 29	7 19	Some Rain (more or less) on th
9	4 33	7 27	8 19	4th, 19th, 25th; and 28th Days of
10	4 35	7 25	9 22	this Month; the Day before or the
11	4 36	7 24	10 26	Day after.
12	4 38	7 22	11 26	
13	4 40	7 20	morn.	FULL Moon, 13 day, at 3 aftern.
14	4 42	7 18	0 24	
C	4 43	7 17	1 18	ous Pamphlets secretly dispersed.—
16	4 45	7 15	2 9	Some eminent Person, either ecclesi
17	4 47	7 13	2 59	astical or legal, now or near this Tim
18	4 49	7 11	3 49	leaves his Employment, or stoops to
19	4 50	7 10	4 40	the Grave.—The Sun's Eclipse visibl
20	4 52	7 8	5 33	LAST Quart. 29 day, at 7 morn.
21	4 54	7 6	6 28	
C	4 56	7 4	7 23	this Month will stir up some Divisions
23	4 58	7 2	8 17	and likewise threatens the Death of
24	5 0	7 0	9 9	some illustrious and great Man, perhaps
25	5 2	6 58	9 59	some Cardinal of the Church of Rome
26	5 3	6 57	10 49	The Effects of this Eclipse will con
27	5 5	6 55	11 29	
28	5 7	6 53	0 a 10	NEW Moon, 28 day, at 7 morn.
C	5 9	6 51	0 49	tinue more than two Years.—Th
30	5 11	6 49	1 28	Turks are uneasy, and are afraid of th
31	5 13	6 47	2 8	traditionary Prophecy, greatly believe

# 18 SEPTEMBER XXX Days.

*Great Britain* — ; let thy Glory spread,  
Rouse up as one new risen from the dead ;  
Heav'n takes no Bribes. do but the Thing that's just,  
And be rewarded equal to thy Trust :  
No perjurd Person, nor a Tyrant State,  
Can be exempt from the Decrees of Fate.

M D	W D	Fasts and Festivals.	☉ ng	☿ Signs	☽ A	☽ rises and sets	Mutual Asp. and Weather.
1	W	<i>Giles.</i>	8	loins	4	7 a 42	☉ ☉ ☿
2	Th	Lond. b. 1666	9	secret	5	7 55	☉ ☿ ☿
3	F	☿ sets 7 50 af.	10	memb.	6	8 15	☉ ☉ ☿
4	S	☿ sets 6 56 af.	11	hips	7	8 44	Windy, with
5	C	☿ S. aft. 11 m.	12	and	8	9 25	☉ ☿ ☿
6	M	Day br. 3 19	13	thighs	9	10 26	showers of
7	Tu	<i>Eusebius</i>	14	knees	10	11 45	☐ ☿ ☿ rain.
8	W	<i>Nat. of V. M.</i>	15	hams	11	morn.	
9	Th	Tw. ends 8 35	16	legs	12	1 18	☉ ☉ ☿
10	F	Day 12 56 l.	17	ankles	13	2 53	
11	S	☽ eclips. visib.	18	feet	14	3 53	Tolerable
12	C	☿ S. aft. Trin.	19	toes	15	6 a 32	good wea-
13	M	Night 11 16 l.	20	head	16	6 46	ther for a
14	Tu	<i>Holy Cross</i>	21	face	17	7 21	late harvest.
15	W	Ember Week	22	neck	18	7 22	
16	Th	Day decr. 4 2	23	throat	19	7 46	Some flying
17	F	<i>Lambert.</i>	24	arms	20	8 22	showers, and
18	S	☿ rises 4 32 m.	25	should.	21	9 10	☐ ☉ ☿
19	C	☿ S. aft. Trin.	26	breast	22	10 10	perhaps
20	M	☿ rises 5 1 m.	27	and	23	11 20	thunder.
21	Tu	St. Matthew	28	stom.	24	morn.	* ☿ ☿
22	W	K. Geo. III. cr.	29	heart	25	0 34	
23	Th	☿ rises 9 34 af.	30	back	26	1 48	Fine and
24	F	☿ sets 7 13 af.	1	bowels	27	3 1	pleasant
25	S	☿ sets 6 26 af.	2	and	28	4 12	weather,
26	C	☿ S. aft. T. in.	3	belly	N	sets	and conti-
27	M	<i>Cyp. O. Holy Ro.</i>	4	reins	1	5 a 47	nues even to
28	Tu	Day br. 4 11	5	loins	2	6 c	* ☿ ☿
29	W	St. Mic. D. of W.	6	secret	3	6 13	the end.
30	Th	<i>Jerome</i>	7	memb.	4	6 31	

# MOORE. SEPTEMBER, 1802. 19

The 1 day, at 2 morn. Venus	} is with the Moon.
The 18 day, at 8 aftern. Mars	
The 25 day, at 8 morn. Saturn	
The 25 day, at 9 aftern. Jupiter	
The 28 day, at 5 aftern. Mercury	

M D	Sun rises	Sun sets	Moon South	Monthly Observations.
1	5 15	6 45	2 4 50	<i>Rain fallen in September, 1800, at London, was near 3 Inches. It was a moist and rainy Month, yet milder than June.</i>
2	5 17	6 43	3 34	
3	5 19	6 41	4 22	
4	5 21	6 39	5 15	
5	5 23	6 37	6 12	
C 6	5 24	6 36	7 13	FIRST Quart 5 day, at 7 morn.
7	5 26	6 34	8 14	Some Rain (more or less) about the 3d, 7th, 12th, 21st, and 27th Days of this Month; the Day before or the Day after.
8	5 28	6 32	9 15	
9	5 30	6 30	10 13	
10	5 32	6 28	11 9	
11	5 34	6 26	morn.	
C 11	5 36	6 24	0 1	FULL Moon 11 day, at 11 night.
13	5 38	6 22	0 53	among them, namely, <i>They shall be destroyed by a Northern Nation.</i>
14	5 40	6 20	1 45	
15	5 42	6 18	2 37	The French Government is very active, and many other States and King-
16	5 44	6 16	3 32	
17	5 46	6 14	4 27	
18	5 48	6 12	5 24	LAST Quart. 18 day, at 8 night doms of <i>Europe</i> appear as vigilant, in taking Measures for the Preservation of their Interests. Men of contrary Judgments appear very vexatious to each other; and those who enjoy the greatest Plenty of this World's Wealth are uneasy, and torment themselves in the
C 18	5 50	6 10	6 20	
20	5 52	6 8	7 13	
21	5 54	6 6	8 4	
22	5 56	6 4	8 52	
23	5 58	6 2	9 36	Plenty of this World's Wealth are uneasy, and torment themselves in the
24	6 0	6 0	10 18	
25	6 2	5 58	10 58	
C 25	6 3	5 57	11 37	NEW Moon 26 day, at 12 night
27	6 5	5 55	0 17	Preservation thereof. Change and Decay are the Elements of every State and Condition.
28	6 7	5 53	0 59	
29	6 9	5 51	1 42	
30	6 11	5 49	2 29	

Europe's Disturbers now seem half undone,  
 And some may with the Game had ne'er begun;  
 The haughty — and — too grow sick,  
 And some who lose their Ends, grow lunatick:  
 A Traitor sure must be the People's Hate,  
 His P — 's Wrath gives him the Turn of Fate.

M W D D	Fasts and Festivals.	☉ ☽ Signs	♂ ♀ Signs	♂ rises and sets	Mutual Asp. and Weather
1 F	<i>Remigius</i>	8 and	5	6 a 56	This month
2 S	Day br 4 20	9 hips	6	7 32	begins with
3 C	16 S. aft. Trin.	10 thighs	7	8 26	fine and
4 M	Tw. ends 7 35	11 knees	8	9 37	△ ♂ ♀
5 Tu	Day 11 18 lo.	12 hams	9	11 1	pleasant
6 W	<i>Faith</i>	13 legs	10	morn.	weather.
7 Th	Night 12 46 l.	13 ankles	11	0 32	
8 F	Day decr. 5 28	14 feet	12	2 4	
9 S	<i>Denys</i>	15 toes	13	3 39	Cloudy and
10 C	17 S. a. T. Ox. &	16 head	14	5 2	dull, and
11 M	<i>Old M. [C. T. b.</i>	17 face	F	rises	rather cold.
12 Fr	♂ rises 3 20 m.	18 neck	16	5 a 32	
13 W	<i>Trans. K. E. Con</i>	19 throat	17	5 55	
14 Th		20 arms	18	6 26	Wind and
15 F	♂ rises 4 0 m.	21 and	19	7 9	♂ ♀ ♂ rain
16 S	♂ rises 8 48 af.	22 should.	20	8 7	now about.
17 C	18 S. aft. Trin.	23 Etheld.	21	9 14	
18 M	<i>St. Luke</i>	24 stom.	22	10 28	
19 Tu	♀ sets 6 40 af.	25 heart	23	11 41	Rough
20 W	♂ sets 5 41 aft.	26 back	24	morn.	winds and
21 Th	Day br. 4 58	27 bowels	25	0 54	some rain.
22 F	Tw. ends 7 2	28 and	26	2 6	
23 S	Day 10 8 l.	29 belly	27	3 16	□ ♀ ♀
24 C	19 S. aft. Trin.	30 reins	28	4 27	
25 M	<i>K. Geo. III. Ac.</i>	1 loins	29	<i>Crisp.</i>	
26 Tu	<i>K. G. III. Proe.</i>	2 secret	N	sets	
27 W	Night 14 6 l.	3 mem-	1	4 a 43	Cold and
28 Th	<i>St. Sim. &amp; Jude</i>	4 bers	2	5 7	stormy near
29 F	Day decr.	5 hips	3	5 40	the end.
30 S	♂ rises 2 24 m.	6 thighs	4	6 28	
31 C	20 S. aft. Trin.	7 knees	5	7 33	

# MOORE. OCTOBER, 1802. 21

The 1 day, at 11 morn. Venus  
 The 17 day, at 2 morn. Mars  
 The 22 day, at 10 night. Saturn  
 The 23 day, at 4 aftern. Jupiter  
 The 28 day, at 11 morn. Mercury  
 The 30 day, at 3 aftern. Venus

is with  
 the Moon.

M D	Sun rises	Sun sets	Moon South	Monthly Observations.
1	6 13	5 47	3 20	<i>Rain fallen in October, 1800, at London, was 1, 4 Inches The Weather was in general very pleasant.</i>
2	6 15	5 45	4 15	
C 6	17	5 43	5 13	
4	6 19	5 41	6 03	FIRST Quart. 4 day, at 5 aftern. Some Rain (more or less) about the 7th, 11th, 15th, 23d, and 27th Days of this Month; the Day before, or the Day after.
5	6 20	5 39	7 12	
6	6 23	5 37	8 09	
7	6 25	5 35	9 03	FULL Moon 11 day, at 8 morn. The French Nation will now remember the old Proverb, that saith, They that dig a Pit for others shall fall into it themselves; They have been the efficient Cause of all the late and present
8	6 27	5 33	9 56	
9	6 29	5 31	10 47	
C 6	31	5 29	11 38	LAST Quart. 18 day, at 12 noon Troubles in Europe, they have and will in the Course of this Year suffer much, as well by Sickness and Want of Trade, as by War, Insurrections, and popular Tumults. All those Countries connected with France, are full of Com-
11	6 33	5 27	12 30	
12	6 35	5 25	1 30	
13	6 37	5 23	2 29	NEW Moon 26 day, at 5 aftern. complaints, and in the same Situation, ye we find some turbulent Spirits are ye inclined to pursue Dominion and Empire, though they wade through a sea
14	6 39	5 21	3 21	
15	6 41	5 19	4 10	
16	6 43	5 17	5 01	
C 6	44	5 16	5 53	
18	6 46	5 14	6 46	
19	6 48	5 12	7 40	
20	6 50	5 10	8 33	
21	6 52	5 08	9 23	
22	6 54	5 06	10 13	
23	6 56	5 04	11 04	
C 6	58	5 02	11 54	
25	7 00	5 00	12 43	
26	7 02	4 58	1 33	
27	7 03	4 57	2 23	
28	7 05	4 55	3 13	
29	7 07	4 53	4 03	
30	7 09	4 51	4 53	
C 7	11	4 49	5 43	

Who, what, will *Sol* and *Saturn's* Malice try?  
 Who's that turn'd out? What mighty Man must die?  
 Some Stars in *Virgo*; what do these prelage?  
 What News tell they to this admiring Age?  
 Grandeur and Int'rest are some People's Glory,  
 Whilst those oppress'd tell but a mournful Story.

M D	W D	Fasts and Festivals.	☉ m	☿'s Signs	☽ A	☽ rises and sets	Mutual Asp. and Weather.
1	M	All Saints	8	hams	6	8 a 54	Rough cold
2	Tu	D. of Kent b.	9	All So.	7	10 19	winds:
3	W	Prs. Sophia b.	10	ances	8	11 48	
4	Th	K. Wm. land.	11	feet	9	morn.	☿ ☽ ♄ ♀ ♃ ♅
5	F	Powder Plot	12	toes	10	1 16	Wet and
6	S	Mic. Term beg.	13	Leonar.	11	2 43	cold for
7	C	21 S. aft. Trin.	14	head	12	4 10	☿ ♄ ♀
8	M	Prs. Aug. S. b.	15	face	13	5 37	☽ ☽ ♄
9	Tu	Ld. Mayor's D.	16	neck	F	rises	several days:
10	W	Day br. 5 30	17	throat	15	4 a 24	
11	Th	Martin	18	arms	16	5 0	☿ ☽ ♄ Cold
12	F	Cam. T. div. m.	19	should.	17	5 54	☿ ♄
13	S	Britius	20	breast	18	6 59	winds still
14	C	22 S. aft. Trin.	21	stom.	19	8 11	blow, and
15	M	Macbutus	22	heart	20	9 25	the weather
16	Tu	Tw. ends 6 23	23	and	21	10 40	is rather
17	W	Hugh, Bp.	24	back	22	11 51	stormy.
18	Th	Day 8 38 long	25	bowels	23	morn.	☿ ♄ ♀
19	F	Night 15 24 l.	26	belly	24	1 0	
20	S	Edmund K & M	28	reins	25	2 11	
21	C	23 S. aft. Trin.	29	and	26	3 21	Some fleet,
22	M	Cecilia	3	loins	27	4 33	or cold rains.
23	Th	Clement O. Mar.	1	secret	28	5 49	☿ ☽ ♄ ♀ ♃ ♅
24	W		2	memb.	29	7 8	☿ ♄
25	Th	D. of Gl. b. Ca-	3	hips	N	sets	
26	F	[therine	4	thighs	1	4 a 17	
27	S	Day decr. 8 19	5	knees	2	5 15	Cloudy and
28	C	Adv. S. Mic T.e	6	and	3	6 36	dark weather
29	M	☽ rises 0 34 m.	7	hams	4	8	even to
30	Tu	St. Andrew	8	legs	5	9 31	the end

# MOORE. NOVEMBER, 1802. 23

The 13 day, at 10 night, Mars  
 The 19 day, at 12 morn. Saturn  
 The 20 day, at 9 morn. Jupiter  
 The 23 day, at 4 aftern. Mercury  
 The 28 day, at 10 morn. Venus

is with  
 the Moon.

M D	Sun rises	Sun sets	Moon South.	Monthly Observations.
1	7 13	4 47	5 2 12	<i>Rain fallen in November, 1800, at</i>
2	7 14	4 46	6 7	<i>London, was 4 Inches or more. This</i>
3	7 16	4 44	7 0	FIRST Quart. 3 day, at 1 morn.
4	7 18	4 42	7 51	<i>was a very rainy Month, and the Air</i>
5	7 20	4 40	8 40	<i>was generally mild.</i>
6	7 21	4 39	9 29	<i>Some Rain or Sleet (more or less)</i>
C	7 23	4 37	10 19	<i>about the 5th, 8th, 14th, 18th, and</i>
8	7 25	4 35	11 11	
9	7 26	4 34	morn.	FULL Moon 9 day, at 7 night.
10	7 28	4 32	0 6	
11	7 30	4 30	1 4	23d Days of this Month; the Day
12	7 32	4 28	2 2	before or the Day after.
13	7 33	4 27	3 1	
C	7 35	4 25	3 56	of Blood to come at it; but their Time
15	7 36	4 24	4 47	is approaching, when the most cruel and
16	7 38	4 22	5 34	tyrannic Powers of this World will be
17	7 39	4 21	6 18	LAST Quart. 17 day, at 8 morn.
18	7 41	4 19	6 59	
19	7 42	4 18	7 38	effectually shaken; and I think the
20	7 44	4 16	8 18	Time is near at Hand too, as you may
C	7 45	4 15	8 57	see more in the latter Part of this Al-
22	7 46	4 14	9 38	manack. Most People have now their
23	7 48	4 12	10 23	Eyes opened; they see and know who
24	7 49	4 11	11 12	are theirs and the Kingdom's Enemies.
25	7 50	4 10	0 2 5	NEW Moon 25 day, at 8 morn.
26	7 52	4 8	1 2	
27	7 53	4 7	2 1	They are wishing for a general Peace,
C	7 54	4 6	3 1	and their Hopes now begin to revive, in
29	7 55	4 5	3 58	some Expectation, for Messengers are
30	7 56	4 4	4 52	now going to and fro from the French Coast



# 24 DECEMBER XXXI Days.

The Year's run out, and doth itself renew;  
 But Man's the same, acts as he us'd to do:  
 With Beasts of Prey, the Lion, Wolf, and Bear,  
 His brutish Nature and his Passions share:  
 He blames the Creature, yet turns Brute for Self;  
 All he condemns in them, he doth himself.

M-W D-D	Fasts and Festivals.	☉ ↑	☿ Signs	D A	D, rises and sets	Mutual Alp. and Weather.
1 W	Day br. 5 54	9	ankles	6	10 a 57	* 2 ♀
2 Th	Tw. ends 6 5	10	feet	7	morn.	Frost and
3 F	Day 8 2 long	11	toes	8	0 21	cold at the
4 S	Night 16 0 l.	12	head	9	1. 43	beginning.
5 C	2 S. in Advent	13	face	10	3. 8	
6 M	Nicholas	14	neck	11	4. 36	
7 Tu	Day, degr. 8 40	15	throat	12	6. 3	Sleet or
8 W	Conception V. M.	16	arms	13	7. 26	showers now
9 Th	½ rises 11 53 a.	17	should.	14	rises	about,
10 F	¼ rises 1 6 m.	18	breast	15	4 a 30	* 2 ♀
11 S	⅓ rises 5 4 aft.	19	and	16	5 40	
12 C	3 S. in Advent	20	stom.	17	6 56	☐ ☉ ½
13 M	Lucy	21	heart	18	8 10	Frosty, and
14 Tu	½ sets 5 45 aft.	22	back	19	9 25	perhaps
15 W	Ember Week	23	bowels	20	10 35	some snow.
16 Th	C. 7. e. O. Sep.	24	and	21	11 44	
17 F	Oxf. T. ends	25	belly	22	morn.	Foggy dark
18 S	Day br. 6 0	26	reins	23	0 54	weather,
19 C	4 S. in Advent	27	loins	24	2 4	
20 M	Tw. ends 5 59	28	secret	25	3 17	☐ 2 ♀
21 Tu	St. Tho. Short-	29	mem-	26	4 34	
22 W	Left Day	30	bers	27	5 53	☐ ½ ♀
23 Th	Night 16 16 l.	1	hips	28	7 12	Cold winds
24 F	Day dec. 8 50	2	thighs	N	sets	8 ☉ ½
25 S	Christmas Day	3	knees	1	3 a 56	but rather
26 C	1 S. aft. Chr.	St. Steph.		2	5 39	open.
27 M	St. John Ev.	5 legs		3	7 1	☐ ☉ 2 ♀
28 Tu	Innocents	6 ankles		4	8 30	☐ 2 ♀, 8 ♂ ♀
29 W	Day 7 48 l.	7 feet		5	9 57	Frost and
30 Th	Day incr. 4 m.	8 toes		6	11 22	snow.
31 F	Silvester	9 head		7	morn.	☉ ☉ ♀

The 10 day, at 11 night, Mars	} is with the Moon.
The 18 day, at 1 morn. Jupiter	
The 24 day, at 4 morn. Mercury	
The 25 day, at 4 aftern. Venus	
The 26 day, at 9 night, Saturn	

M D	Sun- rises	Sun sets	Moon South	Monthly Observations.
1	7 57	4 3	5 2 42	<i>Rain fallen in Dec. 1800, was 1,8</i>
2	7 58	4 2	6 31	<b>FIRST Quart.</b> 2 day, at 9 morn.
3	7 59	4 1	7 18	<i>Inches. On the whole this Month was</i>
4	8 0	4 0	8 5	<i>but two Degrees colder than the last.</i>
C 5	8 1	3 59	8 55	<i>Depth of Rain at London, in the whole</i>
6	8 2	3 58	9 47	<i>Year, was 20,3 Inches.</i>
7	8 3	3 57	10 42	<b>Some Rain or Snow (more or less)</b>
8	8 3	3 57	11 39	
9	8 4	3 56	morn.	<b>FULL Moon,</b> 9 day, at 8 morn.
10	8 4	3 56	0 37	on the 4th, 12th, 17th, 22d, and
11	8 5	3 55	1 34	28th Days of this Month, the Day
C 12	8 6	3 54	2 27	before or the Day after.
13	8 6	3 54	3 16	<b>Coast other Powers are interfering in</b> <b>our Behalf, for this Nation has suf-</b>
14	8 6	3 54	4 1	
15	8 7	3 53	4 44	
16	8 7	3 53	5 23	
17	8 7	3 53	6 2	<b>LAST Quart.</b> 17 day, at 6 morn.
18	8 8	3 52	6 41	ferred a great deal. The <i>English</i> Le-
C 19	8 8	3 52	7 21	gislation is very busy about many
20	8 8	3 52	8 3	Things; let us hope it will be for the
21	8 8	3 52	8 50	Good of the United Kingdom of
22	8 8	3 52	9 41	<i>Great Britain and Ireland.</i>
23	8 8	3 52	10 37	<b>NEW Moon,</b> 24 day, at 10 night.
24	8 8	3 52	11 36	
25	8 7	3 53	0 2 37	Let us also hope for a general Re- formation and Peace, when the Peo- ple shall learn War no more.—Happy is the Man who liveth to see that Day.
C 26	8 7	3 53	1 36	
27	8 7	3 53	2 33	
28	8 6	3 54	3 26	
29	8 6	3 54	4 16	<b>FIRST Quart.</b> 31 Day, at 5 aftern.
30	8 6	3 54	5 3	
31	8 5	3 55	5 50	

B

# 24 DECEMBER XXXI Days.

The Year's run out, and doth itself renew ;  
 But Man's the same, acts as he us'd to do :  
 With Beasts of Prey, the Lion, Wolf, and Bear,  
 His brutish Nature and his Passions share :  
 He blames the Creature, yet turns Brute for Pelf ;  
 All he condemns in them, he doth himself.

M D	W D	Faits and Festivals.	☉ †	☿ Signs	D A	D, rises and sets	Mutual Alp. and Weather.
1	W	Day br. 5 54	9	ankles	6	10 a 57	* ♀ ♂
2	Th	Tw. ends 6 5	10	feet	7	morn.	Frost and
3	F	Day 8 2 long	11	toes	8	0 21	cold at the
4	S	Night 16 0 l.	12	head	9	1. 43	beginning.
5	C	2 S. in Advent	13	face	10	3. 8	
6	M	Nicholas	14	neck	11	4. 36	
7	Tu	Day decr. 8 40	15	throat	12	6. 3	Sleet or
8	W	Conception V.M.	16	arms	13	7. 26	showers now
9	Th	♂ rises 11 53 a.	17	should.	14	8. 2	about.
10	F	♀ rises 1 6 m.	18	breast	15	4 a 30	* ♀ ♂
11	S	♂ rises 5 4 aft.	19	and	16	5 40	
12	C	3 S. in Advent	20	stom.	17	6 56	☐ ☉ ♀
13	M	Lucy	21	heart	18	8 10	Frosty, and
14	Tu	♀ sets 5 45 aft.	22	back	19	9 25	perhaps
15	W	Ember Week	23	bowels	20	10 35	some inqw.
16	Th	C. P. e. O. Sap.	24	and	21	11 44	
17	F	Oxf. T. ends	25	belly	22	morn.	Foggy dark
18	S	Day br. 6 0	26	reins	23	0 54	weather.
19	C	4 S. in Advent	27	loins	24	2 4	
20	M	Tw. ends 5 59	28	secret	25	3 17	☐ ♀ ♂
21	Tu	St. Tho. Short-	29	mem-	26	4 34	
22	W	Left Day	30	bers	27	5 53	☐ ♀ ♂
23	Th	Night 16 16 l.	1	hips	28	7 12	Cold winds
24	F	Day dec. 8 50	2	thighs	N	sets	8 ☉ ♂
25	S	Christmas Day	3	knees	1	3 a 56	but rather
26	C	1 S. aft. Chr.	4	St. Steph.	2	5 39	open.
27	M	St. John Ev.	5	legs	3	7 1	☐ ☉ ♀
28	Tu	Innocents	6	ankles	4	8 30	☐ ♀ ♂, ♂ ♂ ♂
29	W	Day 7 48 l.	7	feet	5	9 57	Frost and
30	Th	Day incr. 4 m.	8	toes	6	11 22	snow.
31	F	Silvester	9	head	7	morn.	☉ ☉ ♀

# MOORE. DECEMBER 1802. 29

The 10 day, at 11 night, Mars  
 The 18 day, at 1 morn. Jupiter  
 The 24 day, at 4 morn. Mercury  
 The 25 day, at 4 aftern. Venus  
 The 26 day, at 9 night, Saturn

} is with the Moon.

M D	Sun rises	Sun sets	Moon South	Monthly Observations.
1	7 57	4 3	5 42	<i>Rain fallen in Dec. 1800, was 1,8</i>
2	7 58	4 2	6 31	<b>FIRST Quart.</b> 2 day, at 9 morn.
3	7 59	4 1	7 18	<i>Inches. On the whole this Month was</i>
4	8 0	4 0	8 5	<i>but two Degrees colder than the last,</i>
C 5	8 1	3 59	8 55	<i>Depth of Rain at London, in the whole</i>
6	8 2	3 58	9 47	<i>Year, was 20,3 Inches.</i>
7	8 3	3 57	10 42	
8	8 3	3 57	11 39	Some Rain or Snow (more or less)
9	8 4	3 56	morn.	<b>FULL Moon,</b> 9 day, at 8 morn.
10	8 4	3 56	0 37	on the 4th, 12th, 17th, 22d, and
11	8 5	3 55	1 34	28th Days of this Month, the Day
C 12	8 6	3 54	2 27	before or the Day after.
13	8 6	3 54	3 16	
14	8 6	3 54	4 1	
15	8 7	3 53	4 44	Coast other Powers are interfering in
16	8 7	3 53	5 23	our Behalf, for this Nation has suf-
17	8 7	3 53	6 2	<b>LAST Quart.</b> 17 day, at 6 morn.
18	8 8	3 52	6 41	fered a great deal. The <i>English</i> Le-
C 19	8 8	3 52	7 21	gislation is very busy about many
20	8 8	3 52	8 3	Things; let us hope it will be for the
21	8 8	3 52	8 50	Good of the United Kingdom of
22	8 8	3 52	9 41	<i>Great Britain and Ireland.</i>
23	8 8	3 52	10 37	
24	8 8	3 52	11 36	<b>NEW Moon,</b> 24 day, at 10 night.
25	8 7	3 53	0 37	
C 26	8 7	3 53	1 36	Let us also hope for a general Re-
27	8 7	3 53	2 33	formation and Peace, when the Peo-
28	8 6	3 54	3 26	ple shall learn War no more.—Happy
29	8 6	3 54	4 16	is the Man who liveth to see that Day.
30	8 6	3 54	5 3	
31	8 5	3 55	5 50	<b>FIRST Quart.</b> 31 Day, at 5 aftern.

B

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# 5 COMMON NOTES and LAW TERMS.

## Common Notes for the Year 1802.

Olden Number - - - -	17	Lent begins - - - -	Mar. 3
Fast - - - - -	26	Easter Day - - - -	April 18
ominical Letter - - - -	C	Rogation Sunday - -	May 23
Fele of the Sun - - - -	19	Ascension Day - - -	May 27
ndays after Epiphany - -	5	Whit Sunday - - - -	June 6
umber of Direction - - -	28	Sundays after Trinity -	- 23
ptuagesima Sunday - Feb.	14.	Advent Sunday - - -	Nov. 28

## TABLE of Terms and Returns for the Year 1802.

Hilary Term begins Jan. 23, ends Feb. 12.

Returns, or Effoign Days.	Ex.	Ret.	Ap.	W. D.
Eight Days of St. Hilary - - - Jan. 20	21	22	23	Saturday.
Fifteen Days of St. Hilary - - - 27	28	29	30	Saturday.
On the Mor. of the Purif. of the Bl. V.M. Feb. 3	4	5	6	Saturday.
Eight Days of the Purif. of the Bl. V.M. 9	10	11	12	Friday.

Easter Term begins May 5, ends May 31.

On fifteen Days after Easter - - - May 2	3	4	5	Wednesday.
From Easter Day in three Weeks - - 9	10	11	12	Wednesday.
From Easter Day in one Month - - - 16	17	18	19	Wednesday.
From Easter Day in five Weeks - - - 23	24	25	26	Wednesday.
On the Mor. of the Ascen. of our Lord - 28	29	30	31	Monday.

Trinity Term begins June 18, ends July 7.

On the Morrow of the Holy Trinity June 14	15	16	17	Friday.
On eight Days of the Holy Trinity - - 20	21	22	23	Wednesday.
On fifteen Days of the Holy Trinity - - 27	28	29	30	Wednesday.
From the Day of Holy Trin. in 3 Weeks July 4	5	6	7	Wednesday.

Michaelmas Term begins Nov. 6, ends Nov. 28.

On the Morrow of All Souls - - - Nov. 3	4	5	6	Saturday.
On the Morrow of St. Martin - - - 12	13	14	15	Tuesday.
On eight Days of St. Martin - - - 18	19	20	21	Monday.
On fifteen Days of St. Martin - - - 25	26	27	28	Monday.

N. B. No Sittings in Westminster Hall on the Second of February, Ascension Day, and Midsummer Day.

The Exchequer opens eight Days before any Term begins, except Trinity, before which it opens but four Days.

Note, The first and last Days of every Term are the first and last Days of Appearance.

A TABLE of the Equation of Time for regulating Clocks and Watches for 1802. *Note*, fa. Clock too fast, that is, your Clock to be set right, must be so much faster than the Sun Dial. flo. Clock too slow, that is, your Clock must be so much slower than the Sun Dial.

D.	January	February	March	April	May	June
1	3' fa. 48"	13' fa. 58"	12' fa. 45"	4' fa. 7"	3' flo. 2"	2' flo. 43"
3	4 44	14 12	12 21	3 31	3 17	2 24
5	5 39	14 24	11 54	2 55	3 29	2 4
7	6 33	14 32	11 26	2 20	3 40	1 43
9	7 27	14 37	10 56	1 45	3 48	1 21
11	8 13	14 39	10 25	1 12	3 54	0 58
13	9 0	14 37	9 52	0 39	3 58	0 34
15	9 44	14 33	9 18	0 8	3 59	0 10
17	10 25	14 25	8 43	0 22	3 58	obef. 16
19	11 3	14 15	8 7	0 50	3 55	0 41
21	11 38	14 1	7 31	1 17	3 50	1 7
23	12 11	13 46	6 54	1 42	3 42	1 33
25	12 40	13 28	6 17	2 5	3 33	1 59
27	13 6	13 8	5 40	2 26	3 21	2 24
29	13 29		5 2	2 45	3 7	2 49
31	13 49		4 25		2 51	
D.	July	August	Septemb.	October	Novemb.	Decemb.
1	3' fa. 13"	5' fa. 57"	0' flo. 2"	10' flo. 10"	16' flo. 13"	10' flo. 50"
3	3 37	5 50	0 39	10 48	16 14	10 3
5	3 59	5 40	1 18	11 24	16 13	9 15
7	4 19	5 28	1 51	11 59	16 8	8 24
9	4 30	5 14	2 38	12 32	16 0	7 32
11	4 56	4 57	3 19	13 4	15 48	6 37
13	5 11	4 37	4 1	13 34	15 38	5 41
15	5 25	4 16	4 43	14 2	15 15	4 44
17	5 37	3 59	5 25	14 27	14 58	3 45
19	5 47	3 26	6 7	14 50	14 28	2 46
21	5 54	2 59	6 49	15 11	13 59	1 46
23	6 0	2 30	7 31	15 28	13 27	0 46
25	6 4	1 59	8 12	15 43	12 52	obef. 15
27	6 5	1 26	8 52	15 56	12 14	1 15
29	6 4	0 52	9 31	16 5	11 33	2 14
31	6 0	0 17		16 11		3 13

How to set a Clock or Watch by this Table. For example, Jan. the 1st, I find by looking into the Table, that a Clock to be right must be 3 Minutes 48 Seconds faster than a Sun Dial; therefore I set it so much faster accordingly. And so of the rest. Twelve o'Clock is the best Time to set a Clock or Watch by a Dial.

*Note*, A Sun Dial shews Solar or Apparent Time; but a Clock, &c. should be set to equal or Mean Time, as the Table directs, to go true.

## The Dominion of the Moon in Man's Body, Passing under the Twelve Zodiacal Constellations.

♈ <i>Aries</i> Head and Face	♎ <i>Libra</i> Reins and Loins
♉ <i>Taurus</i> Neck and Throat	♏ <i>Scorpio</i> Secret Members
♊ <i>Gemini</i> Arms and Shoulders	♐ <i>Sagittarius</i> Hips and Thighs
♋ <i>Cancer</i> Breast and Stomach	♑ <i>Capricorn</i> Knees & Hams
♌ <i>Leo</i> Heart and Back	♒ <i>Aquarius</i> Legs & Ancles
♍ <i>Virgo</i> Bowels and Belly	♓ <i>Pisces</i> Feet and Toes.

## The Names and Characters of the PLANETS, With *Dragon's Head and Tail*.

♄ Saturn	} ☉, or the Sun	♀ Venus
♃ Jupiter		☿ Mercury
♂ Mars		♁ the Moon
♈ Dragon's Head.—♏ Dragon's Tail.		

## The Characters of the ASPECTS.

♌ Conjunction	} ☿ Opposition	△ Trine
* Sextile		□ Quartile

## Upon the TWELVE SIGNS.

- ♈ The Head and Face the RAM doth always rule :  
 ♉ The Neck and Throat are governed by the BULL.  
 ♊ O'er the Arms and Shoulders still the TWINS preside :  
 ♋ Breast, Stomach, Ribs, the crooked CRAB doth guide.  
 ♌ The noble LION rules the Back and Heart :  
 ♍ The bashful VIRGIN claims the Belly Part.  
 ♎ The Reins and Loins the equal BALANCE weigh :  
 ♏ The SCORPION o'er the Secret Parts doth Sway.  
 ♐ The curious ARCHER doth the Thighs affect :  
 ♑ So doth the GOAT our bended Knees protect.  
 ♒ The Legs unto AQUARIUS' Lot do fall :  
 ♓ The FISH our Active Feet their Portion call.

A plain and easy TABLE, shewing the Time of HIGH WATER.

NOTE, That the Moon's Age being taken notice of in the TABLE, you have the Time of HIGH WATER at all the under-named Places.															
Queenborough, Portsmouth, Southampton, Kentish Knock, Leith, Beachy, Isle of Wight, Dunkirk, Canino Coast of Flanders, at the Spits and Dover Point, Gravendune, Blacknell, Rounsey, Thanet, Solly Half-tide, North-Cape before Cocquitz, and between Calais and Dover.															
London, Tinmouth, Hartlepool, Amsterdam, Whitby, Dort, Galcein, West of Ireland, at Groin, at Rotterdam, and in Robin Hood's Bay.															
Newcastle, Humber, Falmouth, seven-m-mouth, at the Spurn between Scilly and Lizard, Ramfey, Dartmouth, Guernsey, Torbay, St. Maloe's.															
Plymouth, Antwerp, Hull, St. David's, Holms of Bristol, Lundy, St. Paul's, Salcom without Uffant, at Waterford, Boston, and at Lynn Half-tide.															
Orkney-Key, Weymouth-Key, Aldborough, Foulness, Lime, the Start before St. Nicholas, Sidmouth in the Channel, between Foy and Falmouth.															
Yarmouth-Road, Harwich, Calais-Road, Dover, Cowes, Caen, the Frith, South-Fordland, St. Helen's, Coast of Normandy and Picardy.															
Hull, Peter-Port, Dublin, between Beachy and the Isle of Wight, Yarmouth, St. Magnus's Sound, Combay, without the Caskets in the Channel.															
D's	A	h	m	b	m	h	m	h	m	h	m	h	m	h	m
1	16	12	48	2	18	3	48	6	3	6	48	7	33	11	18
2	17	1	36	3	6	4	36	6	51	7	36	8	21	12	6
3	18	2	24	3	54	5	24	7	39	8	24	9	9	13	51
4	19	3	12	4	42	6	12	8	27	9	12	9	57	14	42
5	20	4	0	5	30	7	0	9	15	10	0	10	45	15	30
6	21	4	48	6	18	7	48	10	3	10	48	11	33	16	18
7	22	5	36	7	6	8	36	10	51	11	3	12	21	17	6
8	23	6	24	7	54	9	24	11	39	12	21	1	9	18	54
9	24	7	12	8	42	10	12	12	27	1	12	1	57	19	42
10	25	8	0	9	30	11	0	1	15	2	0	2	45	20	30
11	26	8	48	10	18	11	48	2	3	2	48	3	33	21	18
12	27	9	36	11	6	12	36	2	51	3	36	4	21	22	6
13	28	10	24	11	54	1	24	3	39	4	24	5	9	23	54
14	29	11	12	12	42	2	12	4	27	5	12	5	57	24	42
15	30	12	0	1	30	3	0	5	15	6	0	6	45	25	30

The foregoing Table explained.

NOTE, that the Moon's Age being taken Notice of by the Rule in this TABLE, you may obtain the Time of HIGH WATER at all the Places above-mentioned. Observe, When the Moon is one or sixteen Days old, it is HIGH WATER at London, Tinmouth, Hartlepool, &c. at 3 o'Clock, and 48 Minutes past. Observe the same of the rest, which is plain to the meanest Capacity: The Day of the Moon's age you have in the sixth Column on every Left Hand Page of the Calendar.



## KINGS and QUEENS from the CONQUEST.

KINGS Names.	Began their Reign.	Reigned Y. M. D.	Since their Reign.	Buried at
W. Conq.	1066 Oct. 14	20 10 26	715 Sept. 9	Caen, Norm.
W. Rufus	1087 Sept. 9	12 10 24	702 Aug. 1	Winchester
Henry 1	1100 Aug. 2.	35 3 29	667 Dec. 1	Reading
Stephen	1135 Dec. 1.	18 10 24	648 Oct. 25	Feverham

## The Saxon Line restored.

Henry	2	1154 Oct. 25	34 8 11	613 July 6	Fontevault
Richard	1	1189 July 6	9 9 0	603 Apr. 6	Fontevault
John		1199 Apr. 6	17 6 11	586 Oct. 19	Worcester
Henry	3	1216 Oct. 19	56 0 28	530 Nov. 16	Westminster
Edward	1	1272 Nov. 16	34 7 21	495 July 7	Westminster
Edward	2	1307 July 7	19 6 18	475 Jan. 25	Gloucester
Edward	3	1327 Jan. 25	50 4 27	425 June 21	Westminster
Richard	2	1377 June 21	22 3 8	403 Sept. 29	Westminster

## The Line of Lancaster.

Henry	4	1399 Sept. 29	13 5 20	389 Mar. 20	Canterbury
Henry	5	1413 Mar. 20	9 5 11	380 Aug. 31	Westminster
Henry	6	1422 Aug. 31	38 6 4	341 Mar. 4	Windfor

## The Line of York.

Edward	4	1461 Mar. 4	22 1 5	319 April 9	Windfor
Edward	5	1483 Apr. 9	0 2 13	319 June 22	Unknown
Richard	3	1483 June 22	2 2 0	317 Aug. 21	Leicester

## The Families United.

Henry	7	1485 Aug. 22	23 8 0	293 Apr. 22	Westminster
Henry	8	1509 Apr. 22	37 9 6	255 Jan. 28	Windfor
Edward	6	1547 Jan. 28	6 5 8	249 July 6	Westminster
Q. Mary		1553 July 6	5 4 11	244 Nov. 17	Westminster
Q. Elizabeth		1558 Nov. 17	44 4 7	199 Mar. 24	Westminster

## The Union of the Two Crowns.

James	1	1603 Mar. 24	22 0 3	177 Mar. 27	Westminster
Charles	1	1625 Mar. 27	23 10 3	153 Jan. 30	Windfor
Charles	2	1649 Jan. 30	36 0 7	117 Feb. 6	Westminster
James	2	1685 Feb. 6	4 0 7	113 Feb. 13	Paris
Will. & Mar.		1689 Feb. 13	13 0 23	100 Mar. 8	Westminster

## The Union of the Two Kingdoms.

Q. Anne		1702 Mar. 8	12 4 24	88 Aug. 1	Westminster	
George	1	1714 Aug. 1	12 10 10	75 June 11	Hanover	
George	2	1727 June 11	33 4 14	42 Oct. 25	Westminster	
George	3	1760 Oct. 25	Crowned Sept. 22, 1761.			Vivat Rex.

# CHRONOLOGY

OF MANY  
REMARKABLE OCCURRENCES.

*Years of Christ.**Years since.*

1066	<b>W</b> ILLIAM (the Norman) conquered England	736
1116	First Parliament of Lords and Commons	686
1185	Ireland conquered by the English	617
1299	Windmills invented	503
1302	The Mariner's Compass invented	500
1304	Edward I. reduced Scotland	498
1330	Gunpowder discovered by a Priest	472
1369	Wickliff first began the Reformation	433
1441	Printing invented by a German	361
1483	Martin Luther, the Reformer, born	319
1492	Columbus discovered America	310
1521	Engraving on Wood invented by Albert Durer	281
1535	Cannon first used	267
1584	Virginia discovered by Sir Walter Raleigh	218
1590	Telescopes invented by Jansen, a Dutchman	212
1603	A great Plague in London, died 56,570	195
1605	The Popish Gunpowder Plot, November 5	193
1610	Jupiter's Satellites first discovered	190
1611	New Translation of the Bible	191
1614	The New River brought to London	188
1616	Shakespeare the Poet, died	180
1625	A great Plague in London, died 34,517	171
1632	A great fire on London Bridge, Feb. 11	170
1634	Old Parr died, aged 152, he lived in Ten Reigns	168
1641	The cruel Irish Massacre, began October 23	160
1642	Edgehill and Brentford Fight	160
1642	Sir Isaac Newton born, December 25	160
1649	King Charles I. beheaded, Jan. 30	157
1651	The bloody Fight at Worcester	155
1653	Oliver Cromwell made Protector, Dec. 12	149
1655	George Fox, the First of the Quakers	147
1658	Spring Pocket Watches, invented by Dr. Hook	144
1658	Oliver Cromwell died, Sept. 3	144
1660	King Charles II. restored, May 29	142
1661	King Charles II. crowned, April 23, at Westminster	141
1661	A great Storm in London, Feb. 18	141

1662	The Royal Society instituted	-	140
1665	A great Plague in London, whereof died 68,586	-	137
1666	The lamentable burning of London, Sept. 2	-	136
1667	Peace with Holland, France, and Denmark	-	135
1667	The Royal Exchange built	-	135
1668	Peace proclaimed with Spain, Feb. 12	-	134
1669	The Royal Exchange first opened, September 28	-	133
1670	The Prince of Orange arrived at Whitehall	-	132
1670	Henry Jenkins died, aged 169	-	132
1672	War declared against the Dutch	-	130
1672	Halfpence and Farthings first coined, Aug. 16	-	130
1674	Peace with Holland proclaimed, Feb. 28	-	128
1677	Prince of Orange married to the Princess Mary	-	125
1678	The Popish Plot discovered	-	124
1679	The Habeas Corpus Act passed	-	123
1680	A great Comet appeared in December	-	122
1682	Another great Comet appeared	-	120
1683	The Penny Post Office established	-	119
1684	The great Frost that held 13 Weeks	-	118
1685	The Duke of Monmouth beheaded, July 15	-	117
1688	The seven Bishops sent to the Tower, June 8	-	114
1688	The Pretender said to be born, June 10	-	114
1688	Prince of Orange landed at Torbay, Nov. 4	-	114
1688	King James II. abdicated, Dec. 12	-	114
1689	King William and Queen Mary crowned, April 11	-	113
1692	Port Royal swallowed up by an Earthquake	-	110
1692	A great Earthquake in England, Sept. 8	-	110
1693	Hackney Coaches first licensed	-	109
1693	Bank of England established	-	109
1694	Lotteries first established	-	108
1702	Queen Anne declared War against France	-	100
1703	A terrible high Wind, Nov. 26 and 27	-	99
1704	Gibraltar taken by Sir George Rooke	-	98
1706	The Battle at Ramilies on Whit Sunday	-	96
1707	England and Scotland united, May 1	-	95
1708	The Pretender attempted to invade Great Britain	-	94
1709	The French beat in the Woods of Blanglies	-	93
1710	Great Riots and Disturbances in England	-	92
1713	Peace with France proclaimed, May 5	-	89
1715	A total Eclipse of the Sun, April 22	-	87
1715	The Rebellion in Scotland and Lancashire	-	87
1716	A great Frost; a Fair on the Thames	-	86
1718	The first Appearance of the Northern Lights	-	84
1719	A great fiery Meteor, March 19, at 8 at Night	-	83
1727	The great Sir Isaac Newton died, March 20	-	75
1727	An Earthquake in several Parts of England	-	75

1739	War declared against Spain, Oct. 23	63
1739	Forts of Porto Bello destroyed by Admiral Vernon	63
1739	A hard Frost for 9 Weeks, began December 24	63
1743	The Battle of Dettingen, June 16	59
1744	Anson completed his Voyage round the World	58
1744	War declared against France, March 31	58
1745	A Rebellion in Scotland	57
1746	The Scotch Rebels defeated at Culloden, April 16	56
1748	A general Peace concluded, October 7	54
1750	Westminster Bridge finished, cost £.389,500	52
1750	Earthquakes in London, Feb. 8, and March 8	52
1752	The Style and Calendar altered, September 2	50
1755	Lisbon destroyed by an Earthquake	47
1756	War declared against France	46
1758	A large Comet appeared, foretold by Dr. Halley	44
1760	King Geo. II. died, Oct. 25, K. Geo. III. procl. 26	42
1762	A great Snow for 18 Days together, in Feb.	40
1763	A general Peace proclaimed, March 22	39
1765	Otaheite in the South Seas discovered	37
1765	{ Longitude found by Harrisson's Time Piece, } { and £.18,750 given him }	37
1765	General Warrants declared illegal	37
1766	Gibraltar almost destroyed by a Storm	36
1770	Blackfriars Bridge finished, cost £.152,840	32
1772	The Swedes forced to resign their liberties to the King	30
1775	War declared against North-America, August 23	27
1776	The Americans declare themselves Independent	26
1778	The French sign a Treaty with the Americans	24
1778	War against France commenced	24
1779	War against Spain begun	23
1780	War against Holland commenced	22
1780	Riots in London, and Gaols burned	22
1780	Spanish Fleet defeated at Gibraltar by Adm. Rodney	22
1781	Georgium Sidus discovered by Herschel	21
1782	French Fleet, under De Grasse, defeated by Rodney	20
1783	A general Peace	19
1783	Fiery Meteor passed over England, Aug. 18	19
1787	A Commercial Treaty with France concluded	15
1789	A Revolution in France	13
1792	Leopold, Emperor of Germany, died	10
1792	King of Sweden shot at a Masquerade by Ankerstrom	10
1792	France declared a Republic	10
1793	King and Queen of France beheaded	9
1794	French Fleet defeated in the Channel by Earl Howe	8
1797	Spanish Fleet defeated by Earl St. Vincent	5
1797	Dutch Fleet defeated by Viscount Duncan	5
1798	French Fleet defeated near Egypt by Lord Nelson	4

A TABLE of the Rising, Southing, and Setting of the  
Pleiades, or Seven Stars, for every 4th Day in the Year,  
of excellent Use to find the Hour of the Night.

Month & Days	Rise h m	South h m	Sets h m	Month & Days	Rise h m	South h m	Sets h m
January { 1 6 11 16 21 26	1 o a 28 0 6 11 m 44 11 23 10 52 10 40	8 a 44 8 22 8 0 7 37 7 18 6 56	5 m 2 4 38 4 16 3 55 3 34 3 12	July { 1 6 11 16 21 26	1 o m 38 0 18 11 a 57 11 37 11 17 10 57	8 m 54 8 34 8 13 7 53 7 32 7 13	5 a 10 4 50 4 29 4 9 3 49 3 29
February { 1 6 11 16 21 26	1 10 6 9 11 9 16 9 21 8 26 8	17 56 5 52 9 36 9 17 8 58 8 39	6 33 6 12 5 52 5 33 5 14 4 55	August { 1 6 11 16 21 26	1 10 6 10 11 9 16 9 21 9 26 8	33 49 14 30 55 6 36 5 17 5 59 15	3 5 2 46 2 27 2 8 1 49 1 31
March { 1 6 11 16 21 26	1 8 6 8 11 7 16 7 21 7 26 6	28 10 10 52 52 33 15 7 15 3 57 5	4 44 4 26 4 8 3 49 3 32 3 13	September { 1 6 11 16 21 26	1 8 6 8 11 8 16 7 21 7 26 7	37 53 19 35 1 17 43 59 26 42 8 24	1 9 0 51 0 32 0 5 11 m 58 11 40
April { 1 6 11 16 21 26	1 6 6 6 11 5 16 5 21 5 26 5	35 17 17 58 5 40 21 5 2 5	2 51 33 10 14 10 1 56 1 37 1 18	October { 1 6 11 16 21 26	1 6 6 6 11 6 16 5 21 5 26 5	50 3 32 2 13 2 54 2 36 1 15 1	11 22 11 4 10 45 10 26 10 8 9 47
May { 1 6 11 16 21 26	1 4 6 4 11 4 16 3 21 3 26 2	43 24 24 5 5 0 26 11 56 11	0 59 40 8 21 8 1 8 42 7 22 7	November { 1 6 11 16 21 26	1 4 6 4 11 4 16 3 21 3 26 3	54 10 34 0 14 0 53 0 28 11 7 11	9 26 9 6 8 46 8 25 8 0 7 39
June { 1 6 11 16 21 26	1 2 6 2 11 2 16 1 21 1 26 0	41 22 22 10 1 10 43 9 10 9 59 9	10 57 37 6 17 6 58 6 35 5 15 5	December { 1 6 11 16 21 26	1 2 6 2 11 2 16 1 21 1 26 0	46 2 24 10 2 10 40 9 18 9 56 9	2 18 6 56 6 34 6 12 5 50 5 29

TABLE of some principal fixed Stars, with the Time they Rise, South, and Set, either before or after the Seven Stars; as also their Colour, Magnitude, and Meridian Altitude, by which they may be readily discovered.

Co- lour.	Alt.	Mag.	Names of the Stars.	Rise		South		Sets	
				h	m	h	m	h	m
♂	53	1	Aldebaran, or Bull's Eye	1	a 34	0	a 48	0	b 0
♂	29	1	Left Foot of Orion	4	31	1	31	1	34
♂	36	2	Middle * in Orion's Belt	4	13	1	51	0	35
♂	45	1	Right Shoulder of Orion	3	23	2	8	0	8
♀	21	1	Syrius, the great Dog	6	41	3	1	0	48
♂	43	2	Procyon, the little Dog	5	33	3	53	2	a 7
♂	30	1	Heart of Hydra	8	39	5	41	2	44
♂	51	1	Regulus, Lion's Heart	7	26	6	21	5	16
♀	54	1	The Lion's Tail, Denab	8	42	7	54	7	7
♀	28	1	Virgin's Spike	12	46	9	38	6	36
♂	21	58	Arcturus	10	47	10	30	10	12
♂	12	1	Antares, the Scorp. Heart	17	36	12	39	7	42
♂	46	2	Bright * of the Vulture	17	38	16	3	9	b 27
♀	6	1	Fomelhaul	11	14	19	11	10	37
♀	56	2	Head of Andromeda	10	42	10	10	2	56

**T**HE brightest of the seven Stars is of the third magnitude, and hath 61 degrees of meridian altitude, and in colour participates of the D and G.

The fixed Stars all rise, south, and set, about four minutes sooner every night than they did the night before; this considered, the exact time of rising, southing, and setting for any intermediate night, not herein noted, may be very easily deduced from these Tables by inspection only.

To know the Time of rising, southing, and setting of any star in this Table, for any day required, it is but considering how many hours and minutes that star rises, souths, or sets, either before or after the seven stars on that day, and you will have your desire; observing that in this Table, a stands for *after*, and b for *before*.

ON THE  
ECLIPSES of the SUN and MOON,  
WITH OTHER  
APPEARANCES IN THE HEAVENS,  
In the Year 1802,  
*Calculated from New and Improved Astronomical  
TABLES,*  
*Founded on the Newtonian System of Gravitation.*

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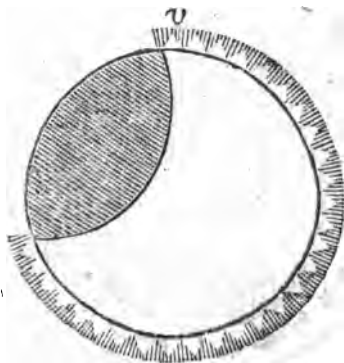
THE two great Lamps of Heaven will this Year afford four Eclipses, namely, each Luminary two: These will happen in the following Order:

THE first will be an Eclipse of the SUN, on *Thursday, March* the 4th, at 55 Min. past our 4 in the Morning; consequently invisible to us, it happening so long before the *Sun* rising; but that is not all, for had it happened at Noon-day, it had still been invisible, not to us only, but to all *Europe*; and in short it is invisible to all the Northern Parts of the Globe: But in those Parts more Southerly this will be a very great Eclipse; for in the unknown Parts of the Globe, 114 Degrees 7 Minutes East from *London*, in 58 Degrees 20 Minutes South Latitude, if there be any Inhabitants, they will be surprised with a total and central Eclipse, precisely at their Noon-Day.

The second of these Eclipses, is a small one of the Moon, and invisible, upon *Friday* the 19th of *March*. The Middle of this Eclipse, with respect to *London*, our Metropolis, happens 54 Minutes before 12 at Noon; at which Time the *Moon* will be vertical to that Part of the great Ocean lying under 8 Minutes of North Latitude, 166 Degrees 46 Minutes of Longitude, West from *London*;

don; consequently it will be visible in *New Zealand*, *Van Diemen's Land*, *New Holland*, and all along its Eastern Coast, called *New South Wales*; also at *Otaheite*, and the rest of the *Society Isles*, the *Friendly Islands*, *New Caledonia*, the *New Hebrides*, the *Molucca Isles*, those of *Sunda*, *Sumatra*, *Lorneo*, and *Philippina*; the Kingdoms of *Siam* and *China* in the *East Indies*; the Eastern Parts of the Russian Empire, quite throughout the Eastern *Tartary*, in *Japan* and *Yedso*. The Defect, where visible, is 5 Digits and 16 Minutes upon the North Side of the *Moon*.

The third Eclipse, is another solar Defect, on *Saturday* the 28th of *August*, and if Clouds interpose not, will in Part be visible here; and only in Part, for the *Sun* will rise eclipsed — At *London* the *Sun* rises that Morning at 5 Minutes past five o'Clock, and the Middle of the Eclipse will be at 19 Minutes after five, when the *Sun* will appear near 5 Digits eclipsed; and the *Moon* quits the *Sun's* Disk, and the Eclipse ends, at 13 Minutes past six o'Clock, app. Time.



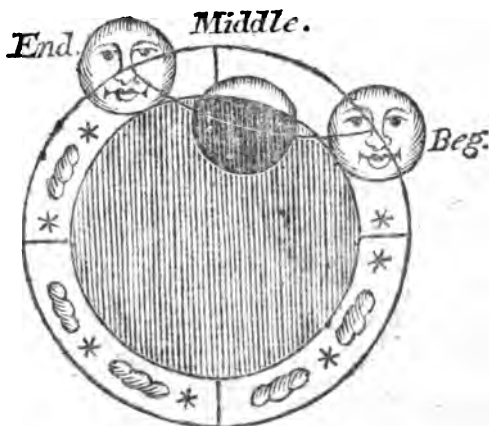
*Note.* The above Type, or Delineation, shows the Manner of Appearance at the Middle of the Eclipse, or greatest Obscuration, as expected at *London*, and Parts adjacent, and may tolerably well serve the whole Kingdom.  
v. the *Sun's* Vertex, or upper Limb.

The



The fourth and last of these Eclipses, is a partial Eclipse of the Moon, and visible to us, if Clouds interpose not, upon *Saturday* the 11th of *September*. At the Middle of this Eclipse, the *Moon* is vertical on the Eastern Coast of the Kingdom of *Congo* in *Africa*, under 4 Deg. 2 Min. South Latitude; 20 Deg. 3 Min. East from *London*.—Hence it appears, that this Eclipse will be visible throughout all *Africa*, in the Island of *Madagascar*, great part of the *Indian Sea*, the West Parts of *Asia*, the *Atlantic Ocean*, all *Europe*, in *Iceland*, the *Azores*, *Canary*, and *Cape Verd Islands*. It will be visible on the Eastern Coast of *South America*, and even Southward as far as *Cape Horn*, where the *Moon* will rise eclipsed.—In this Island of *Great Britain*, it may be expected to happen according to the following Calculation.

#### A TYPE of this ECLIPSE.



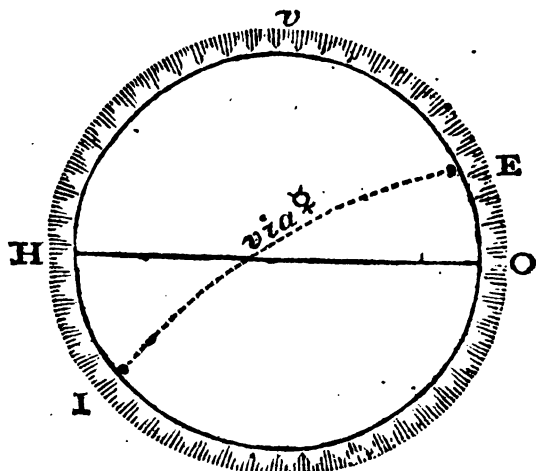
At *London*, *September* 11th, the Eclipse will begin at 14 Minutes past 9 at night; the Middle or greatest Obscuration is at 39 Minutes past 10; and the Eclipse will end at 5 Minutes past 12 o'Clock, apparent Time.—Digits eclipsed 9 Deg. 12 Min. as the Type above shews.

At

At *Oxford* and *York* the Times will be 5 Minutes sooner, and at *Edinburgh* 13 Minutes sooner; at *Cambridge* much the same as at *London*.

Upon *Tuesday* the 9th of *November*, in the Morning, there happens a Transit of the Planet *MERCURY* over the *SUN*'s Disk, most of which will be visible here, if Clouds should not intervene.—It begins before *Sun* rise, and is the only one we shall have for some Years. These Transits are of the utmost Importance to Astronomy, as they afford the Means of improving the Theory and Tables of that Planet. *Mercury* has at all Times afforded much Occupation to Astronomers, because to observe that Planet is a Matter of considerable Difficulty. The great *COPERNICUS* died without ever having seen it, and therefore could believe only in its Existence. The first who ever saw the Transit of *Mercury* over the *Sun* was *PETER GASSENDUS*, Dean of the Cathedral Church of *Digne* in *Provence*, and *Régius* Professor of Mathematics in the University of *Paris*, and that was on the 7th of *November* 1631. *JEREMIAH HORROX*, an eminent English Astronomer, was the first that ever saw the Planet *Venus* pass over the *Sun*, and that was in the Year 1639. The Beginning of this Transit will be seen Eastward as far as *New Zealand*, *New Holland*, and in the *East Indies*; the Middle will be seen in all *Africa*, most Parts of *Asia* and *Europe*; the End will extend itself Westward as far as *Cape Horn*, and all *South America*, and to most of the *West India* Islands. It is hoped the Appearance of it in this Kingdom will not greatly deviate from the following Type and Calculation.—The Delineation is adapted to *LONDON*, and shows the Track of *Mercury* from the Beginning or *Sun* rise to the End, and will tolerably well serve for the whole Kingdom.—*Mercury* being so very small, some sort of Telescope must be used to see him traverse the *Sun*'s Face; to the Eye-piece of the Telescope must be screwed on the dark Glass used in viewing the solar Spots, which screens the Eye from any Danger.

## The TYPE of the Tranfit of MERCURY over the SUN.



Note, *v*. the Sun's Vertex; H O an Horizontal Line.

MERCURY will enter the *Sun's* Disk at I, at 28 Min. past 6 in the Morning, with respect to the Meridian of *London*, and the *Sun* rises at 25 Min. past 7.—The Middle of the Tranfit will be at 14 Min. past 9; *Mercury* will appear in the Form of a round black Spot, and will go off the *Sun* at E, at 1 Min. past 12 at Noon, app. Time; but the Times at *Oxford* and *York* will be 5 Minutes sooner, and at *Edinburgh* 13 Minutes sooner. The Time at *Cambridge* the same as at *London*, nearly.

*Note.* *Mercury* enters the *Sun* as above, on the left Hand Side, when looked at directly with the naked Eye, but will appear to enter upon and go off the *Sun* on the contrary Sides when looked at through a Telescope that reverses.

*Three visible Occultations of JUPITER by the Moon.*

THIS is a remarkable Year for several visible Occultations of the Planet *Jupiter* by the *Moon*, the principal of which is here

here inserted for the Sake of such curious Persons as delight in contemplating the beautiful Structure and wonderful Harmony of the celestial Bodies. The first is on *Thursday* the 21st of *January*, at Night, when the *Moon* will be seen approaching that fine Star for some Time before the Immersion takes Place, which is at 2 Min. past 9; the Immersion will be at 9 Min. past 10, when *Jupiter* will appear again on the contrary Side, after being obscured by the *Moon* 1 Hour and 7 Min.

The second is on *Wednesday* the 17th of *February*, at Night, when *Jupiter* will first appear on the lower Side of the *Moon* as it did in the last Occultation, and the Immersion takes Place at 5 Min. past 9; and *Jupiter* will come out from behind the *Moon* at 14 Min. past 10, after being hid 1 Hour and 9 Minutes.

The third is on *Tuesday* the 13th of *April*, in the Morning, when *Jupiter* will appear on the left Side of the *Moon*, and the Immersion happens at 29 Minutes past 2 o'Clock; and *Jupiter* will come out from behind the opposite or right Side of the *Moon* at 24 Min. past 3, after being hid by the *Moon* 55 Minutes. These Calculations are made for the Meridian and Latitude of *London*, and according to app. Time. These notable Occultations of *Jupiter* by the *Moon* will appear very beautiful through a good Telescope, though they may be seen by the naked Eye should the Air prove favourable.

*Nota.* The two grand superior Planets, *JUPITER* and *SATURN*, will (all the fore-part of this Year) appear very near together, as they did in the last Year, and may be viewed every night with a good Telescope when the Air is clear, through which they will make a fine Appearance; *Jupiter* with his Belts and Satellites, and *Saturn* with his wonderful Ring and Satellites.—Their Conjunction happens *July* the 16th, at 7 in the Morning, in 4 Degrees 54 Minutes of *Virgo*.

## METEOROLOGICAL OBSERVATIONS, &c.

THE distinguishing Feature of the Year 1800, was a hot and dry Summer, for little more than an Inch of Rain

Rain fell in the fore-part of *June*; and from the 22d of that Month, there was a continued Drought for more than eight Weeks, for there was no Rain until early in the Morning of the 19th of *August*, when a Thunder Storm commenced.—In all this Period the *Mercury* in the *Barometer* was constantly very high, namely, 30 Inches, and sometimes above; and by my Journal of the Weather kept at *Reyston*, I found it the hottest *July* (except that of 1793) for at least seventeen Years past.—The coldest Day in the Year was the 1st of *January*, and the hottest Day was the 11th of *August*.—All the latter Months were mild, and the Thermometer never so low as the freezing Point.—The Month of *September* was moist and rainy, and yet milder than the Month of *June*, which, though dry, was for the Season a cool Month.—The Month of *November* was very rainy, and on the 9th Day thereof, about Noon, the Wind suddenly (after being brisk for more than 30 Hours) increased to a violent Storm, and continued with increasing Force for an Hour, when its Violence began to abate (the Quicksilver in the Barometer rising very fast) and in less than six Hours there was very little Wind: This Storm did much Damage in the Southern Parts of the Kingdom.—I intend, my friends, this *Almanack* (as to the Weather) to be classed with a good *Weather Glass*, which, to those of my make I give particular Rules, so that by a moderate Attention any one may soon understand them; for a good *Barometer* would always prove a faithful Monitor with regard to the Business of Husbandry; for a Person with such an Instrument would know the proper Season for applying the Sickle or Scythe, when the ignorant Farmer would cut down his Corn and his Hay improvidently, and leave them to macerate and spoil in the soaking Showers that fall.—Who would then, for the Sake of such a small Sum of Money, want a general Index for Life, Health, and good Fortune?—Those Weather Glasses hawked about the Country are often scarce worth Notice.—Take Care also of counterfeit *MOORE'S Almanacks*, as there is one printed.

## *Judicium Astrologicum pro Anno 1802.*

*Or, An Astrological Judgment for the whole Year, from the Influx and Influences of the Planets (as second Causes under God) with respect to the Affairs of the World.*

In the first place I again present my Readers with another **HIEROGLYPHIC** alluding to these wonderful Times.



**COURTEOUS READER**, in several of my preceding Almanacks you may observe that I intimated that the Spirit of God is now performing great Wonders in all Nations; in preparatory Order, to bring about the great Work of Reformation; and, indeed, the Times of late have been so remarkable, that it seems like the Beginning of the Prophecy of the Prophet *Joel*, Ch. 2. Ver. 30. — *I will shew wonders in the Heavens; and in the Earth, Blood and Fire with Pillars of Smoke* It behoves us to watch narrowly, that we be not ignorant of the Signs of the Times. *Mat. 24, C. 7. — Ye shall bear of Wars, and Rumours of Wars, &c. For Nation shall rise up against Nation, and Kingdom against Kingdom; and there shall be Famines and Pestilences,*

*Pestilences, and Earthquakes in divers Places.* Of all the Plagues and Judgments that God is pleased to inflict on Mankind, these just mentioned are the most tremendous; and of late what has there been wanting to verify all this? This is the last Generation which shall not pass away till many Things be fulfilled that are spoken of by the Prophets, namely, *Isaiah, Ezekiel, Daniel, and the Revelations.* The 7<sup>th</sup> Vial of God's Wrath will be poured out upon all the Nations of *Europe*, as well as the Eastern and Western Antichrist, namely, the *Turkish* and *Popish* Countries.—Then shall the Mystery of God be made manifest, and there shall be a Reunion of all Nations and Kingdoms.—So great have we found God's Mercies unto this Nation that we have been preserved, hitherto, from Pestilence and other Mortalities, beyond Expectation of former Precedents, when it approached so near our Shores as it was known to have done of late, and giving us (at the Time of my writing this) so fine a Prospect of Plenty upon the Earth that we cannot be too thankful.—O that Men were but wise and honest! *For from the least of them, even to the greatest of them, every one is given to Covetousness, and from the Prophet even unto the Priest every one dealeth falsely.* Jer. Ch. vi. Ver. 13. In my last Year's Almanack I represented the Political State of *England* by a pied Bull, with his Horns cut off and his fore Legs broken, lying upon the Ground, and upon his Back three Flower de Lucies; and the Distress of the Community or lower Orders of the People by four Cows looking up to Heaven almost starved, whose Ribs were seen through their Hides.—Upon which we add,

If Corn in *England* doth grow dear,  
Then our four hungry Cows appear;  
In better Pastures they had been,  
Now Naught but Skin and Bone are seen.

*See Prov. Ch. xi. Ver. 26. and Isa. Ch. v. Ver. 8.*

### *Of the Winter Quarter.*

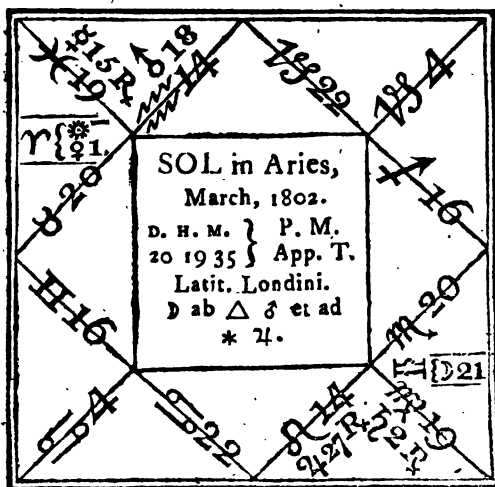
THIS Quarter begins at such Time as the Sun enters the Southern Tropic, namely, *Capricorn*, which happens this Year on *Tuesday* the 22<sup>d</sup> of December 1801, at 2 Min. past 6 in the Morning, at which Time the first Deg.  
of

of  $\Delta$  culminates on the Med. Cœli, and 4 Deg. of  $\uparrow$  ascend in the East.—The most potent Configurations of the Planets at this Ingress is a  $\zeta$  of  $\uparrow$ ,  $\gamma$  and  $\eta$  in the Ascendant; and above all, the approaching grand Conjunction of the two Superiors *Jupiter* and *Saturn* in *Virgo*; and now in this Figure in the 9th House both retrograde and within 1 Degree of their partil  $\zeta$ , which actually does not take Place by my Tables until the 16th of *July*, at 7 in the Morning, notwithstanding which its Influence has begun to operate ever since their platique Aspect, which took Place from the Beginning of last *September*, and particularly so from the Commencement of this Quarter.—It happens in the Horoscope of *France*, particularly *Paris*, and it falls in a square Aspect of the last  $\zeta$  in  $\uparrow$ , the Horoscope of *Spain*, and in Opposition to the Ascendants of *Portugal* and *Egypt*; and, I am sorry to add, in a square Aspect to the Ascendant of *London*.—These Countries and Places will feel its powerful Effects and baneful Influences, and every other Country also that is connected or at War with the *French Republic*.—These Conjunctions of *Jupiter* and *Saturn* do certainly convert and change Things in the World, and the observations of all Ages are Testimonies sufficient to confirm it, had I room to mention them.—It is well known to all *Europe*, that many eminent Changes and Contentions have happened since the last Conjunction in  $\uparrow$ , in the Year 1782, to go no farther back, wherein such great Alterations in Kingdoms and States have happened which perhaps no Age can parallel.—This present Conjunction shews miserable Complaints among the Poor in general, both for Want of Money and Want of Trade; it often produces malignant, pestilential, and contagious Distempers; sometimes great inundations of Waters; and in other Parts, and at other Times, extreme drougthy Seasons.—It is observable that these Planets have not been far distanced from this Aspect for a long Time past, in which what unaccountable Things have been transacted, what intestine Feuds and Divisions would fill a Volume to recount!—The *French Republic* is very active both in preparing Levies of Men for recruiting her Armies, &c. and also as prudently consult-



consulting how to manage her Affairs at Home, for Providence doth not seem altogether to prosper all her begun Enterprises.—Our Work is not finished; it is true; in some Countries it is begun, and some Foundation laid for acting of greater Matters when Time and Opportunity offer themselves.—The Sword is not yet sheathed!

*A Scheme of the Grand Radix of the Year's Revolution, or the  
SUN'S INGRESS into ARIES, 1802.*



*Of the Spring Quarter,*

WHICH takes its Beginning on *Sunday* the 21st of *March*, at 35 Min. past 7 in the Morning; at which Time the Heavens appear as in the above Scheme.—Here is an Appearance of Treaties offered, Ambassadors and frequent Embassies emitted from one Court to another, in this Quarter, as well as in the preceding Quarter, and some Talk of Negotiations for Peace; but I doubt nothing less is thought of by some of the contending Powers at War than  
to

to gain Advantages; for if we consider the last Ingress, which was somewhat violent, and this is not much better, for here  $\delta$  is in  $8$  of  $\mathcal{U}$ , who is afflicted of  $h$ , and  $h$  is in  $8$  of  $\mathfrak{g}$ .—From such Configurations what can we pronounce, but that all the Subtily, Deceit, and Hypocrisy, that evil-minded men can suggest are set on Foot? *Mars* in  $\approx$  still shakes his bloody Flag, and makes his Sword sharp for the Battle.—I foresee great Contentions occasioned by the Discords of the great Men of the Earth: there will be likewise great Alterations and Changes of Rulers; the Right-hand of the World shall fear the Left; a mercurial Hero, that is a witty and eloquent Person, shall, by Degrees, attain the Kingdom or Empire; he shall be a Lover of Freedom and the just Rights of Mankind, and by his Means the Nation's Religion and Laws shall have a Change: and also we may expect to hear of military Actions both by Sea and Land, for it seems the great Heroes of the Age have still (as heretofore) an Opportunity to shew their Valour.—Some eminent and great Events and Alterations will shortly be made visible in the different Parts of *Europe*. Some of the Places where the great Scene of Affairs may be expected, are *Italy, France, Germany, Spain, Portugal, Holland, and Prussia*, together with *Russia, Sweden, and Denmark*, &c. though it appears that a great Northern Nation may be least affected, as the  $\delta$  of  $\mathcal{U}$  and  $h$  happens in a *trine* Aspect to the Ascendant of *Russia*, which is friendly.—The *Turks* seem also concerned in a hostile Way.—I hope the United Kingdom of *Great Britain* and *Ireland* will remain internally tranquil, and that she will in the End triumph over her hostile Enemies—So let every Englishman say.

### Of the Summer Quarter.

THIS Quarter begins on *Thursday* the 22d of *June*, at 27 Min. past 5 in the Morning; at which Time 21 Deg. of  $\times$  culminate, and the 20th Degree of  $\approx$  ascends;  $\mathfrak{g}$  and  $\mathfrak{h}$  are in  $\delta$  in the Ascendant,  $\mathcal{U}$  and  $h$  conjoined in the 3d House,  $\delta$  on the Cusp of the 11th in *England's* Ascendant, the  $\mathcal{D}$  in the M. C. in  $\Delta$  of  $\mathfrak{g}$  and  $\mathfrak{h}$ , the  $\odot$  located in the 12th House.—Thus stands the Face of the

Heavens at this Solar Ingress, which is nearly similar, and in a Piece with the last Quarter, except the Warlike Planet *Mars*, who is got into the Sign  $\gamma$ , his domal Dignities and Horoscope of *England*, which will put Courage into the *British* Soldiers; and denotes Resolution and some Success to attend our national Affairs.—In this Quarter happens the grand *Conjunction* of *Jupiter* and *Saturn* in the earthly Sign *Virgo*, where  $\mathcal{U}$  receives his Detriment, and  $\mathcal{h}$  wholly Peregrine, and out of all his Dignities.—This  $\delta$  of the Superiors I look upon (as it now falls in the earthly Triplexity) as a Birth, which by Time and Order of Nature gradually comes to Perfection, and performs the Work the great God of Nature has ordained it for; for I judge no small or trivial Matters to succeed this  $\delta$ , and the more so as an Eclipse of the *Sun* directly follows it, and falls in the very Sign and Degree thereof, which signifies the Sickness or Death of some King in the Confines of *Virgo*, or the lamentable Death or pitiful End of some great Person, &c. with a Scarcity of the Fruits of the Earth; it also denotes Dulness in the Magistracy, Heresies in the Clergy and Church, together with Beggary and Poverty to many Countries.

### *Of the Autumnal Quarter.*

THIS Quarter begins on *Thursday*, *September* 23d, at 3 Min. past 7 at Night, when 9 Deg. of  $\mathcal{G}$  ascend, and 16 Deg. of  $\mathcal{h}$  are on the M. C. the  $\mathcal{D}$  ab.  $\square$   $\mathcal{Q}$  ad.  $\ast$   $\delta$ ; and here we find  $\delta$  in  $\Pi$ , in a  $\square$  of  $\mathcal{U}$  and  $\mathcal{h}$  in  $\mathcal{M}$ .—These are still but angry Positions, and will be followed, I fear, with mischievous Actions, which, to avert from these Kingdoms, and all his Majesty's Dominions, let us implore the Aid of that Almighty Being at whose Command the Powers both of Heaven and Earth were first created, and are still preserved from degenerating to their primitive Nothing; and without whose Permission the greatest Tyrant in the Universe, nay even *Lucifer* himself, cannot overpower the most despicable Reptile or Insect, nor even discompose the most minute Atom of Matter pertaining to this brittle Globe.

FINIS.

# *Merlinus Liberatus.*

BEING AN

# ALMANACK

For the Year of our Redemption,

1802,

The Sixth after *Bissextile*, or *Leap-Year*;  
And from the Creation of the World, according  
to the best History, 5749.

The Second Year of the 19th Century,

And the 113th of our Deliverance by *K. William*  
*From Popery and Arbitrary Government*;

But the 107th from the

Horrid, Popish, Jacobite Plot.

Wherein are contained all Things fitting and useful for such a Work; as  
an Ephemeris of the daily Motions of the Planets, with their various  
Configurations, Aspects, Conjunctions; Lunations, Eclipses, Astrono-  
mical, Astrological, Meteorological Observations; the rising and Setting  
of the Sun, Moon, Planets, and fixed Stars, illustrated with Tables of  
the Tides, Terms, and daily Equation of Clocks; Length and Break,  
Increase and Decrease of Days; Semidiurnal and Seminocturnal Arches  
for several Latitudes; a Chronology; Remarks on the Divisions of the  
Heavens, with Judgments of the Eclipses and Seasons, handled ac-  
cording to the Rules of the Ptolemean Astrology, with many other  
Things relating to the Truth of Astronomy, and will equally serve  
also for either *Parker's* or *Saunders's* Ephemeris, as it contains most  
of the useful Parts of those other two Years; and *White's* Ephe-  
meris contains the rest.

Calculated for the Meridian of LONDON.

By JOHN PARTRIDGE.

*Etiam Mortuus loquitur.*

L O N D O N.

Printed for the COMPANY of STATIONERS,

By WILLIAM THORNE, Red Lion Court, Fleet Street.

And Sold by GEORGE GREENHILL, at their Hall, Ludgate Street.

[ Price stitched Seventeen Pence. ]

# A Table of the Common Notes, and Moveable Feasts, for the Year of our Lord 1802.

Golden Number - - - 17	Easter Sunday - April 18
Epaet - - - - - 26	Rogation Sunday May 13
Dominical Letter - - C	Ascension Day - May 27
Cycle of the Sun - - 19	Whit Sunday - June 6
Roman Indiction - - 5	Trinity Sunday - June 13
Number of Direction - 28	Sundays after Trinity - 23
Sundays after Epiphany 5	Advent Sunday - Nov. 28
Septuagesima Sund. Feb. 14	Year of the Julian Per. 6515
4th Wednesday, - Mar. 3	Year of the Dionysian - 125

## A Table of the 12 Signs, 7 Planets, and Aspects.

♈ Aries, <i>Head and Face.</i>	☉ Sol; or the Sun.
♉ Taurus, <i>Neck and Throat.</i>	♄ Mars.
♊ Gemini, <i>Arms and Shoulders.</i>	♀ Venus.
♋ Cancer, <i>Breast and Stomach.</i>	♁ Tellus, or Earth.
♌ Leo, <i>Heart and Back.</i>	♁ Luna, the Moon.
♍ Virgo, <i>Bowels and Belly.</i>	♂ Mars.
♎ Libra, <i>Reins and Loins.</i>	♃ Jupiter.
♏ Scorpio, <i>Secret Members.</i>	♄ Saturn.
♐ Sagittarius, <i>Hips and Thighs.</i>	♃ Georgium Sidus.
♑ Capricorn, <i>Knees and Hams.</i>	♁ Dragon's Head.
♒ Aquarius, <i>Legs and Ankle.</i>	♁ Dragon's Tail.
♓ Pisces, <i>Feet and Toes.</i>	♁ Part of Fortune.

♌ Conjunction, *In one Sign and Degree.*

\* Sextile, *is 2 Signs, or 60 Degrees.*

□ Square or Quartile, *is 3 Signs, or 90 Degrees.*

△ Trine, *is 4 Signs, or 120 Degrees.*

♌ Opposition, *is 6 Signs, or 180 Degrees.*

♈ ♌ ♐ Hot and dry, Fiery	♊ ♍ ♑ Cold & dry, Earthy
♉ ♋ ♒ Hot and moist, Airy	♌ ♏ ♓ Cold & moist, Watery
♊ ♍ ♐ Diar. Mascul.	♋ ♌ ♎ Noct. Femin.
♋ ♎ ♑ Cardinal & Move.	♌ ♏ ♓ Fixed Signs
♌ ♐ ♒ Common Signs	♋ ♌ ♎ Fruitful Signs
♉ ♍ ♑ are Barren	♌ ♏ ♓ are Barren

# REGAL TABLE.

3

<i>Kings Names.</i>	<i>Reigns began.</i>	<i>The direct Lineal Descent of His Majesty K. George III.</i>
William Conq.	Oct. 14, 1066	Henry II. K. of England had
William Rufus	Sept. 9, 1087	Maud mar. Hen. the Lion, D.
Henry 1. -	Aug. 2, 1100	of Bavaria and Saxony, had
Stephen - -	Dec. 1, 1135	Wil. of Lun. mar. Helena, D.
Henry 2. Rofam.	Oct. 25, 1154	of Worldemer, K. of Den. had
Richard 1. -	July 6, 1189	Otho D. of Brunf. and Lunen.
John - - -	April 6, 1199	----- had -----
Henry 3. -	Oct. 19, 1219	Albert the Great D. of Brunf.
Edward 1. -	Nov. 16, 1272	----- had -----
Edward 2. -	July 7, 1307	Albert the Fat D. of Brunf.
Edward 3. -	Jan. 25, 1327	----- had -----
Ric. 2. W. Tyler	June 21, 1377	Magnus D. of Brunswick
Henry 4. - -	Sept. 29, 1399	----- had -----
Henry 5. -	Mar. 29, 1413	Mag. Torquat. D. of Brun. & Lun.
Henry 6. - -	Aug. 31, 1422	----- had -----
Ed. 4. J. Shore	Mar. 4, 1461	Bernard D. of Brun. & Lun.
Edward 5. -	April 9, 1483	----- had -----
Richard 3. -	June 23, 1483	Frederick Duke of Lunenb.
Henry 7. - -	Aug. 22, 1485	----- had -----
Henry 8. -	Apr. 22, 1509	Otho the Great D. of Lunenb.
Edward 6. -	Jan. 28, 1547	----- had -----
Mary 1. - -	July 6, 1553	Henry Duke of Lunen. had
Elizabeth -	Nov. 17, 1558	Ernest Duke of Lunenb. had
James 1. - -	Mar. 24, 1603	Wil. D. of Lunen. Zel. had
Charles 1. -	Mar. 27, 1625	Elizabeth, mar. Fred. K. of
Charles 2. -	Jan. 30, 1649	Bohemia, had Geo. P. of Cal-
James 2. - -	Feb. 6, 1685	lenbar and D. of Hanovers,
Will. 3. & M. 2.	Feb. 13, 1689	had Sophia, mar. Ernest Au-
Anne - - -	Mar. 8, 1702	gustus Bishop of Osnaburg,
George 1. -	Aug. 1, 1714	and Elektor of Brunswick
George 2. -	June 11, 1727	Lunenburgh, had George, by
George 3. -	Oct. 25, 1760	the Grace of God, King of
		Great-Britain, &c. who had
		George II. who had Fred. Pr.
		of Wales, who had George III.
		his present Majesty, whom
		God preserve.

A Table of the Moon's Age for every Day throughout the Year 1802, whereby, with the Help of the next General Tide Table, the Times of High Water at all the Places mentioned above it are shewn by Inspection.

An Explanation of this and the following Table:

First find the Month on the Head of the Table, and the Day in the first Column on the left Hand, and in the Angle of meeting you have the Day of the Moon's Age, with which enter the following Table, and find your said Number in the left Hand Column, and over against it in the other Column is the Time of High Water at all the Places above mentioned, by Inspection.—*Example, Jan. 23, I find the Moon to be 19 Days old, and over against 19 in the 1st Column I find 6 h. 12 m. in the 2d Column, 4 h. 42 m. in the 3d; which are the Times of High Water at all those Places mentioned above in the 2d and 3d Columns on that Day. Et sic de ceteris.*

December.	6	7	8	9	10	11	12	13	F	15	16	17	18	19	20	21	22	23	24	25	26	27	28	N	1	2	3	4	5	6	7
November.	6	7	8	9	10	11	12	13	F	15	16	17	18	19	20	21	22	23	24	25	26	27	28	N	1	2	3	4	5	6	7
October.	5	6	7	8	9	10	11	12	13	F	15	16	17	18	19	20	21	22	23	24	25	26	27	28	N	1	2	3	4	5	6
September.	4	5	6	7	8	9	10	11	12	13	F	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30				
August.	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
July.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
June.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
May.	29	N	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
April.	28	N	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
March.	27	N	29	N	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
February.	28	N	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
January.	27	N	29	N	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Month Day.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

A general Tide-Table, shewing the Time of High Water at all the Places herein mentioned, viz.

Enter this Col. with the Moon's Age, and over against it you have the Time of High Water at the Places following.		Lond Tim. Hartl. Amster. Dort, Whitby, Galacia, Gasc. West of Irel. Brittain at Grein, Roterd. and Robin H. Bay.		Downs, Graves. Ramk. Guern. Rum. Thanet, Scilly half Tide, Senny H. Zenn at Blacken N. Cape, bet. Cal. and Dov.		Plym. Ramf Sew. Humb. Foy, Torb. Newc. Falm. Dartm. Lizard, St. Maloes, at the Spurn, betw. Scilly and the Lix.		Hull, Lynn, Weym. Fald Antw. St. Dav. Holmes of Brisfol, Lund. St. Paul's Salcom, without Ushant, Waterf. half Tide		Boston, Brisfol, Fouln Startp. Lanion. Albor. Weym. Key, Lime, before St. Nicholas, Sidmoub in the Channel, Foy.		Dover, Harw. Bologne, Farm Road, Calais Road, St. John de Luca, S. Forel, St. Helens, Coast of Norm. and Picardy.		Portf. Quimb. Southa. Leith. Isle of Wight, Dunk. Kentish Knock, Beachy, Canado, C. of Fland. Spiers, Dover Pier.		Portl. Peter-port, Haguis, Dubl. Harf. Lambay, Magnus, Sound, Comb without the Caskets, Marne's, Milford, Texel	
's A		h	m	h	m	h	m	h	m	h	m	h	m	h	m	h	m
1	16	3	48	2	18	6	3	6	48	7	33	11	18	12	48	9	3
2	17	4	36	3	6	6	51	7	36	8	21	12	6	1	36	9	51
3	18	5	24	3	54	7	39	8	24	9	9	12	54	2	24	10	39
4	19	6	12	4	42	8	27	9	12	9	57	1	42	3	12	11	27
5	20	7	0	5	30	9	15	10	0	10	45	2	30	4	0	12	15
6	21	7	48	6	18	10	3	10	48	11	33	3	18	4	48	1	3
7	22	8	36	7	6	10	51	11	36	12	21	4	6	5	36	1	51
8	23	9	24	7	54	11	39	12	24	1	9	4	54	6	24	2	39
9	24	10	12	8	42	12	27	1	12	1	57	5	42	7	12	3	27
10	25	11	0	9	30	1	15	2	0	2	45	6	30	8	0	4	15
11	26	11	48	10	18	2	3	2	48	3	33	7	18	8	48	5	3
12	27	12	36	11	6	2	51	3	36	4	21	8	6	9	36	5	51
13	28	1	24	11	54	3	39	4	24	5	9	8	54	10	24	6	39
14	29	2	12	12	42	4	27	5	12	5	57	9	42	11	12	7	27
15	30	3	0	1	30	5	15	6	0	6	45	10	30	12	0	8	15



## ROYAL FAMILY, &amp;c.

## BIRTH-DAYS of the ROYAL FAMILY.

KING GEORGE III. June 4, 1738	Prince Aug. Fred. Jan. 27, 1773
Prince of Wales, Aug. 12, 1762	Prince Adolph. Fred. Feb. 24, 1774
Duke of York, Aug. 16, 1763	Princess Mary, April 25, 1776
Duke of Clarence, Aug. 21, 1765	Princess Sophia, Nov. 30, 1777
Da. of Wirtemberg Sept. 29, 1766	Princess Amelia, Aug. 7, 1783
Duke of Kent, Nov. 2, 1767	Queen Charlotte, May 19, 1744
Prs. Augusta Sophia, Nov. 3, 1768	Princess of Wales, May 17, 1768
Prs. Elizabeth, May 23, 1770	D— of Brunswick, Aug. 11, 1737
Duke of Cumberland, June 5, 1771	Duke of Gloucester, Nov. 25, 1743

## SOVEREIGNS of EUROPE, their Accession, &amp;c.

Kingdoms, &c.	To whom subject.	When born.	Began to reign.
England, &c.	George III.	June 4, 1738	Oct. 25, 1760
Russia	Alexander		1800
Spain	Charles IV.	Nov. 11, 1748	Dec. 1788
Portugal	Mary	Dec. 7, 1734	Feb. 24, 1777
Prussia	Fred.-Wm. III.	Aug. 6, 1770	Nov. 16, 1797
Denmark & Norway	Christian VII.	Jan. 29, 1749	Jan. 12, 1766
Sweden	Gustavus IV.	Nov. 1, 1778	Mar. 29, 1792
Germany	Francis II.	Feb. 12, 1767	Mar. 1, 1792
Holland	William V.	March 3, 1748	Oct. 17, 1791
Papedom	Pius VII.	Aug. 11, 1742	1800
Sardinia	Victor	June 26, 1726	Mar. 20, 1773
Ottoman Empire	Selim III.	July 17, 1761	April 7, 1789
Two Sicilies,	Ferdinand IV.	Jan. 12, 1751	Oct. 2, 1759

## The FULL WEIGHT of the COINS, with the LEAST WEIGHT allowed to pass of the Gold Coin.

Wt. allowed.		Full Wt.	SILVER.		Full Wt.
GOLD.	dwt. gr.	dwt. gr.		dwt. gr.	
Guinea	5 8	5 9 3/4	A Crown	19	2 1/2
Half Guinea	2 16	2 16 3/4	Half Crown	9	16 3/4
Third of Guin.	1 12	1 12 3/4	Shillings	3	20 3/4
			Six Pence	2	22 1/2

According to the above proportions it appears, that the value of a lb. of silver is 6s. or 3l. 2s. and of a lb. of gold is 44l. guineas, or 46l. 14s. 6d. Also that the oz. of silver is 5s. 2d. and the oz. of gold 3l. 17s. 10 1/2d. So that the value of the standard gold is 15 times that of the silver, and 1-14th more.

A TABLE of TERMS and RETURNS for 1802.

Hilary Term begins *January 23*, ends *February 12*.

Returner Effoign Days.

	Exc.	Ret.	App.	W. D.
In eight Days of St. Hilary, - - <i>January 20</i>	21	22	23	<i>Saturd.</i>
In fifteen Days of St. Hilary, - - - 27	28	29	30	<i>Saturd.</i>
On the Morrow of the Purif. of bl. V. M. Feb. 5	4	5	6	<i>Saturd.</i>
In eight Days of the Purif. of bl. V. Mary, 9	10	11	12	<i>Friday</i>

Easter Term begins *May 5*, ends *May 31*.

In 15 Days of Easter, - - - <i>May 2</i>	3	4	5	<i>Wednesd.</i>
From the Day of Easter in 3 Weeks, - 9	10	11	12	<i>Wednesd.</i>
From the Day of Easter in 1 Month, - 16	17	18	19	<i>Wednesd.</i>
From the Day of Easter in 5 Weeks, - 23	24	25	26	<i>Wednesd.</i>
On the Morrow of the Ascension, - - 28	29	30	31	<i>Monday</i>

Trinity Term begins *June 18*, ends *July 7*.

On the Morrow of the holy Trinity, <i>June 14</i>	15	16	17	<i>Friday</i>
In eight Days of the holy Trinity, - - 20	21	22	23	<i>Wednesd.</i>
In fifteen Days of the holy Trinity - - 27	28	29	30	<i>Wednesd.</i>
From the holy Trinity in 3 Weeks, - <i>July 4</i>	5	6	7	<i>Wednesd.</i>

Michaelmas Term begins *Nov. 6*, ends *Nov. 28*.

On the Morrow of All Saints, - - - <i>Nov. 3</i>	4	5	6	<i>Saturd.</i>
On the Morrow of St. Martin, - - - 12	13	14	15	<i>Tuesd.</i>
In eight Days of St. Martin, - - - 18	19	20	21	<i>Monday</i>
In fifteen Days of St. Martin, - - - 25	26	27	28	<i>Monday</i>

N. B. No Sittings in *Westminster-Hall* on the 24 of February, *Ascension Day*, and *Midsummer Day*.

The Exchequer opens Eight Days before any Term begins, except Trinity, before which it opens but Four Days.

Note, That the first and last Days of every Term are the first and last Days of Appearance.

OXFORD and CAMBRIDGE TERMS.

OXFORD TERMS.

Lent Term - - begins *January 14*, - - ends *April 20*,  
 Easter Term - begins *April 28*, - - ends *June 3*,  
 Trinity Term - begins *June 16*, - - ends *July 17*,  
 Michaelmas Term begins *October 10*, - - ends *Dec. 27*.

The AG is *July 12*.

CAMBRIDGE TERMS.

Lent Term - - begins *January 13*, - - ends *April 9*,  
 Easter Term - - begins *April 28*, - - ends *July 9*,  
 Michaelmas Term begins *October 10*, - - ends *Dec. 16*.

The Commencement will be *July 6*.

# January hath XXXI Days.

Now Hills and Dales beneath the Snow are lost,  
 And Navigation seal'd up by the Frost;  
 Stern Winter rages, cruel and severe,  
 And Vegetation scarcely does appear;  
 Congeal'd the Marble are the fruitful Plains,  
 And Northern Seas are bound in icy Chains.

M	D	M	D
1	7	6	✕
6	7	5	24
11	7	5	24
16	7	5	24
21	6	4	24
26	6	4	23

W	Sundays and	Long	Long	♂	♀	♀	Aspects and
D	Remark. Day.	°	°	°	°	°	Weather.
P	Circumcision	10	27	1	16	19	22
S	Sun rises 8. 4.	11	28	15	45	20	23
C	2 S. aft. Christ.	12	29	0	39	20	25
M		13	31	15	48	21	26
T	Sun sets 3. 58.	14	32	1	22	22	27
W	Epiph. 12th day	15	33	16	10	23	28
T	[O. Chris	16	34	1	3	23	29
F	Lucian	17	35	15	35	24	1
S	Sun rises 7. 58	18	37	29	42	25	2
C	1 S. aft. Epiph.	19	38	13	24	26	4
M	Plow Monday	20	39	26	44	26	5
T		21	43	9	43	27	6
W	Hil. C. T. b. Old New	22	25	28			7
T	Oxf. T. b. [Yrs. Day	4	11	54	28		9
F		24	43	17	12	29	10
S	Sun sets 4. 10.	25	44	29	21	30	11
C	2 S. aft. Epiph.	26	46	11	23		12
M	Q. Char. b. d. k.	27	47	23	20		14
T	[Prisca	28	48	5	13		2
W	Fabian	29	49	17	3		3
T	Agnes	0	50	28	52		4
F	Vincen	1	51	10	42		4
S	Hil. T. begins	2	52	22	38		5
C	3 S. aft. Epiph.	3	53	4	42		6
M	Conv. St. Paul	4	54	16	58		7
T		5	55	29	32		7
W	Pr. Aug. Fr. b.	6	56	12	28		8
T	Sun rises 7. 33.	7	57	25	50		9
F	Sun sets 4. 29.	8	58	9	40		10
C	K. Cha. I. mart.	9	58	23	59		10
S	2 S. aft. Epiph.	10	59	8	45		11

*Frost and  
 snow about  
 this time.*

*Cold and  
 windy, or else  
 Δ h ♀, Δ 4 ♀,  
 more favour-  
 able.*

*Δ 4 ♀  
 Δ h ♀*

*Sleet or show-  
 ers.*

*Dark and dull  
 weather.*

*Δ 4 ♂  
 Rough winds,  
 Δ h ♂  
 but not bad  
 weather.*

*♂ ♂ ♂  
 Frosty.*

M. Jupiter South		Venus South		Partridge. January, 1802.	
1	3m 47	10m 4		New Moon	4th Day, at 8 Morning.
6	3 24	10 47		First Quarter	10th Day, at Midnight.
11	3 21	10 52		Full Moon	18th Day, at 10 Night.
16	2 39	10 58		Last Quarter	27th Day, at 1 Morning.
21	2 17	11 1		3 1st Day	5 So. 3m 55, 8 10m 16, 8 10m 5
26	1 54	11 9		16th D.	2 47, 10 9, 11 32.

M. Lunar Aspects.		Clock		Moon D rises		Observations.
D	☉ ☿ ♀ ♀ ♀ ♀	☉	☿	☉	☿	
1	☐ ☐	3' 48"	9m 0	5m 13		<i>Courteous Reader,</i> We are now arrived at the Beginning of another Year; and if ever there was any Reason for serious Contemplation, now is the Time. — This Nation, though often successful against the Enemy, has suffered very much.
2		4 16	10 1	6 36		
C	☿ ☐ ☐	4 44	11 6	7 52		
4	20	5 12	12 13	9 15		
5		5 39	1 17	10 15		
6		6 6	2 16	11 51		
7	8 8	6 33	3 10	1 24		
8	* ☐	6 59	3 59	2 50		
9		7 24	4 46	3 15		
C	☐ ☐	7 49	5 32	4 32		
11	☐ ☐ ☐ ☐	8 13	6 17	5 35		10 Arch-bp Laud beheaded 1645 11 Sir Hans Sloane died 1752 15 Pondicherry surrendered 1763 17 Bat. of Falkirk 1746 20 First Parliam. 1269 21 Louis XVI. K. of Fr. beheaded 1793 24 A great fire at the Custom-h. 1715 28 Hen. VIII. died 1547 31 Guy Faux ex. 1606
12		8 37	7 4	6 53		
13	☐ ☐	9 0	7 53	7 53		
14		9 22	8 44	8 43		
15		9 44	9 39	9 43		
16	* * 8	10 5	10 28	10 45		
C		10 25	11 19	11 32		
18	8	10 44	12 19	12 32		
19	10	11 3	1 8	1 41		
20		11 21	2 54	2 52		
21	☐ ☐ ☐ ☐	11 38	3 37	3 5		
22		11 55	4 18	4 15		
23	☐ ☐	12 11	5 58	5 26		
C		12 26	6 37	6 38		
25		12 40	7 17	7 52		
26	☐ * * *	12 54	8 0	8 50		
27		1 6	8 46	9 10		
28	* ☐ ☐ *	1 18	9 36	9 33		
29		1 29	10 33	10 58		
30	☐ ☐	1 39	11 34	11 18		
C	☐	1 49	12 40	12 25		

10 February hath XXVIII Days.

The Snow-drop now this Month does with it bring,  
And thus proclaims the glad Approach of Spring;  
Now gentle Gales and milder Breezes blow,  
To check the Cold, and to dissolve the Snow;  
The cheerful Days do now increase in Length,  
And rugged Winter daily loses Strength.

M	h	u	D
D	h	u	D
1	6	3	X
6	5	3	23
11	5	2	22
16	5	1	22
21	4	1	22
26	4	0	22

M	W	Sundays and	☉ long	☽ long	♂	♀	☿	Aspects and
D	D	Remark. Days.	☉	☽	♂	♀	☿	Weather.
1	M		12	0	23	15	12	15
2	T	Purif. or Candl.	13	1	9	7	13	217
3	W	Blase	14	2	24	23	13	419
4	T		15	3	9	30	14	521
5	F	Agatha	16	4	24	17	15	622
6	S		17	4	8	29	16	724
7	C	5 S. aft. Epiph.	18	5	22	35	16	926
8	M	Sun rises 7. 14.	19	6	6	8	3	1710
9	T		20	7	19	7	18	11X
10	W	Sun sets 4. 50.	21	7	1	49	19	122
11	T		22	8	14	14	19	143
12	F	Hil. T. ends	23	9	26	25	20	155
13	S		24	9	8	26	21	167
14	C	Septuagesim. S.	Valent.	20	21	22	17	9
15	M	[O. Candl.	26	10	2	12	22	1910
16	T		27	11	14	2	23	2012
17	W	Sun rises 6. 57	28	11	25	52	24	2114
18	T		29	12	7	45	25	2215
19	F	Sun sets 5. 7.	0X	12	19	42	25	2417
20	S		1	12	1	46	26	2518
21	C	Sexagesima S.	2	13	13	59	27	2621
22	M	Sun rises 6. 48.	3	13	26	23	28	2721
23	T		4	13	9	11	28	2922
24	W	St. Matthi. Pr. Ad. Fr. b.	21	59	29	26	23	248
25	T	Cam. T. div. m.	6	14	5	17	1	24
26	F		7	14	18	58	1	225
27	S	Sun sets 5. 22.	8	14	3	2	2	426
28	C	Shrove Sunday	9	15	17	29	2	526

JUPITER will be an Evening Star till September 9; then a Morning Star for the rest of the Year.

M	Jupiter	Venus	Partridge. February, 1808. 11	
D	South.	South.		
1	1 m 26	11 m 16	New Moon 2d Day, at 7 Night.	
6	1 3	11 22	First Quarter 9th Day, at 2 Afternoon.	
11	0 41	11 27	Full Moon 17th Day, at 5 Afternoon.	
16	0 18	11 33	Last Quarter 25th Day, at 2 Afternoon	
21	11 2 56	11 38	1st Day $\frac{1}{2}$ So. 1 m 18, $\frac{1}{2}$ 9 m 54, $\frac{3}{4}$ 0 a 16	
26	11 33	11 44	16th D. 0 31, 9 42, 0 57	

M	Lunar Aspects.						Clock	Moon	D	rises		Observations.
D	☉	☿	♈	♉	♊	♋	bef. ☉	South	&	sets		
1						♋	13 58	10 44	7 m 12			In this Month are many violent Aspects; these Aspects presage Debates and Deliberations among divers great Senators and Counsellors of Kingdoms and States. Many Divisions in Italy among the Religious, whether Cardinals, or Bishops, or other Princes of those Parts.
2	♋					♋	14 5	11 48	8 sets			
3	7	♈	♈				14 12	0 2 46	5 a 41			
4				*			14 19	1 39	7 15			
5					*		14 24	2 29	8 42			
6	*			☐			14 29	3 17	10 7			
C			♈		*		14 32	4 5	11 31			
8		♈		♈	♈		14 35	4 53	morn.			
9	☐						14 37	5 43	0 54			
10		☐	☐			☐	14 38	6 34	2 13			
11	♈				♈		14 39	7 27	3 29			4 Martinica sur. 1762 6 Cha. II. died 1685 11 London Bridge burnt 1632 12 Lady Jane Grey beheaded 1554 16 Sir J. Oldcastle burnt 1413 18 Q. Mary beheaded 1557 22 Quaker's affirmation accep. 1708 24 Earl Derwentwater beheaded 1716 25 Sir Chr. Wren died 1723
12		*	*				14 39	8 19	4 35			
13					♈		14 37	9 11	5 26			
C				♈			14 35	10 16	7			
15					♈		14 33	10 48	6 33			
16					♈		14 29	11 32	6 53			
17	♈	♈	♈				14 25	morn.	Dries			
18	5				♈		14 20	0 15	5 a 59			
19				♈			14 15	0 55	7 14			
20							14 9	1 35	8 25			
C							14 1	2 15	9 40			
22	♈	*	*	☐	♈		13 54	2 57	10 57			
23							13 46	3 42	morn.			
24		☐	☐	*	☐	♈	13 37	4 30	0 18			
25	☐						13 28	5 23	1 40			
26			♈		☐		13 18	6 21	3 2			
27	*	♈			*		13 8	7 23	4 12			
C					*		12 57	8 26	5 5			

VENUS will be a Morning Star till March 17; and then an Evening Star for the rest of the Year.

# 12 March XXXI Days.

The Sun, that great resplendent Orb of Light,  
Now equally divides our Day and Night;  
From the angry North the Winds rush forth again,  
Their just Equilibrium to maintain;  
Yet still the Sun preserves his potent Sway,  
And on the Earth does genial Warmth display.

M	D	h	m	s
1	4	30	X	
6	3	29	21	
11	3	28	21	
16	2	28	21	
21	2	27	20	
26	2	27	20	

M	W	Sundays and	long	long	♂	♀	Aspects and
D	D	Remark. Days.	°	°	°	°	Weather.
1	M	David	10	X 15	2	6 27	
2	T	Shrove T. Chad	11	15	17	16 4 7 R	<i>Sleet or snow-</i>
3	W	Alth Weeneiday	12	15	2	X 21 5 9 27	<i>ers, and ra-</i>
4	T		13	15	17	23 5 10 27	<i>☉ eclips. inv.</i>
5	F	Sun rises 6. 26	14	15	2	Y 12 6 11 27	<i>ther stormy.</i>
6	S		15	15	16	41 7 12 26	
7	C	S. in Lent. Per	16	15	0	8 47 8 14 26	
8	M	[petua.	17	51	14	25 8 15 25	<i>Temperate</i>
9	T	Sun sets 5. 42.	18	15	27	37 9 16 25	<i>weather now</i>
10	W	Ember Week	19	15	10	II 26 10 17 24	<i>about.</i>
11	T		20	15	22	53 11 19 23	
12	F	Gregory	21	15	5	55 11 20 22	<i>♂ ☉ ♀, ♂ ♀ ♀</i>
13	S		22	14	17	4 12 21 21	
14	C	2 S. in Lent	23	14	28	56 13 22 20	
15	M	Sun rises 6. 6.	24	14	10	Ω 45 14 24 19	
16	T		25	13	22	34 15 25 18	<i>No great al-</i>
17	W	St. Patrick	26	13	4	Y 27 15 26 17	<i>teration as</i>
18	T	Edw. K. W. S.	27	12	16	26 16 27 17	<i>yet.</i>
19	F		28	12	28	33 17 29 16	<i>☉ eclips. inv.</i>
20	S	Sun sets 6. 4.	29	11	10	Δ 15 18 Y 15	
21	C	S. in L. Be.	0	Y 11	23	19 18 1 15	<i>♂ ☉ ♀</i>
22	M	[nedit	1	10	6	m 0 19 2 14	
23	T		2	10	18	55 20 4 14	
24	W		3	9	2	4 5 21 5 14	
25	T	Annu. Lady D.	4	9	15	29 21 6 14	
26	F		5	8	29	10 22 7 D	<i>Fine days,</i>
27	S	Sun rises 5. 42.	6	7	13	W 6 23 9 14	<i>but rather</i>
28	C	Midlent Sund.	7	6	27	18 24 10 14	<i>frosty nights.</i>
29	M		8	6	11	42 24 11 14	
30	T	Sun sets 6. 23.	9	5	26	17 25 12 14	
31	W		10	4	10	X 58 26 13 15	

M		Jupiter	Venus	Partridge. March, 1802. 13	
D		South	South		
1	11	20	11	m 47	New Moon 4th Day, at 5 Morning.
6	10	59	11	52	First Quarter 11th Day, at 6 Morning.
11	10	39	11	56	Full Moon 19th Day, at 11 Morning.
16	10	18	0	a 1	Last Quarter 26th Day, at 11 Night.
21	9	58	0	5	1st Day $\frac{1}{2}$ So. 11 a 36, $\frac{1}{2}$ 9 m 36, $\frac{1}{2}$ 0 a 57.
26	9	38	0	10	16th D. 10 36, 9 27, 11 m 26.

M		Lunar Aspects.						Clock	Moon D rises		Observations.
D		☉	☿	♈	♉	♊	♋	bef. ☉	South	& sets.	
1				♋				12' 45"	9 m 29	5 m 44	<i>England is much divided in Councils; and the People complain for want of Money, want of Trade, and want of many Things. — Some Parts of Turkey are uneasy; Sicily and Rome itself are perplexed. The Northern Powers wish to keep Peace with England.</i>
2			♈					12 33	10 28	6 8	
3	♋	♈			♋			12 21	11 24	6 26	
4	17					♋		12 8	0 21	6 sets	
5				*				11 54	1 77	2 37	
6			♈					11 41	1 56	9 4	
C		♈		♋				11 26	2 46	10 32	
8	*				*	*		11 12	3 37	11 58	
9		♋	♋					10 56	4 29	morn	
10	♋			♈	♋			10 41	5 23	1 18	
11		*	*			♋		10 25	6 17	2 29	
12								10 9	7 10	3 28	
13	♈				♈	♈		9 52	8 14	1 11	
C								9 35	8 49	4 41	<hr/> 4 Hen. VI. depos. 1461 6 First appear. of the Nor. lights 1716 8 K. W. III. died 1702 9 Rizzio murd. 1566 10 Act for build. 50 new churches 1710 14 Adm. Byng shot 1757 18 Amer. Stamp-Act repealed 1766 24 Q. Eliz. died 1603 27 James I. died 1625 28 Tobac. brought to England 1585 30 Fred. Pr. of W. died 1751
15				♈				9 18	9 35	5 4	
16		♋	♋					9 1	10 18	5 21	
17								8 43	10 59	5 34	
18	♈					♈		8 25	11 40	5 46	
19	23				♈			8 7	morn	rises	
20				♈				7 48	0 21	7 a 38	
C		*	*					7 31	1 28	5 1	
22						♈		7 12	1 46	10 11	
23			♋	♋				6 54	2 34	11 35	
24	♈	♋			♈	♋		6 35	3 26	morn	
25			♈	*				6 17	4 22	0 58	
26	♋	♈			♋			5 58	5 21	2 8	
27						*		5 40	6 23	3 8	
C	*					*		5 21	7 24	3 50	
29				♋				5 2	8 22	4 17	
30		♈	♈					4 44	9 18	4 37	
31						♋		4 25	10 10	4 53	



In this sweet Month the Birds now joyfull are,  
 And do their great Creator's Praise declare;  
 Vegetation now beginneth to revive,  
 And fruitful Showers makes it for to thrive;  
 The Fields and Meadows we with Joy survey,  
 And thus anticipate the blooming May.

M	D	h	m	u	D
D	m	u	u	u	u
1	1	27			
6	1	26			20
11	1	26			19
16	1	26			19
21	1	26			19
26	1	D			18

M	W	Sundays and	☉ long	☽ long	♂	♀	Aspects and
D	D	Remark. Days.	°	°	°	°	Weather.
1	T	Sun rises 5. 33.	11	3	25	39	27 15 15 8 4 ♂
2	F		12	2	10	13	28 16 16 Open wea-
3	S	Richard.	13	1	24	33	28 17 16 ther, with
4	C	S. in Lent. Am.	14	0	8	36	29 18 17 fruitful
5	M	[brose	14	59	22	16	20 18 showers.
6	T	Old Lady Day	15	58	5	32	1 21 19
7	W	Sun sets 6. 39.	16	57	18	25	1 22 19 8 5 ♂
8	T		17	56	0	57	2 23 20
9	F	Cam. T. ends	18	55	13	11	3 25 21 Showery still,
10	S	Oxford T. ends	19	54	25	12	4 26 22 Δ 4 ♀
11	C	Palm Sunday	20	53	7	5	4 27 23 perhaps thun-
12	M		21	51	18	53	5 28 24 der.
13	T	Sun rises 5. 9.	22	50	0	44	6 8 26
14	W		23	49	12	39	7 1 27 Δ 5 ♀
15	T	Maundy Thurs.	24	47	24	45	8 2 28
16	F	Good Friday	25	46	7	3	8 3 29 Δ 6 4
17	S	Sun sets 6. 58.	26	44	19	35	9 5 29 The weather
18	C	Easter Day	27	43	2	23	10 6 2 is rather cold,
19	M	Easter Mond.	Alphege	15	26	11	7 3 yet not bad
20	T	Easter Tuesd.	29	40	28	45	11 8 5 spring wea-
21	W		0	38	12	16	12 9 6 Δ 6 5
22	T	Sun rises 4. 52.	1	37	25	59	13 11 7 ther.
23	F	St. George	2	35	9	51	14 12 9
24	S		3	34	23	52	14 13 10 Rather win-
25	C	Low S. Sun. Mark. Prs.	7	30	58	15	14 12 dy-
26	M	[Mar. b.	5	30	22	9	16 16 14
27	T		6	28	6	23	17 17 15 * 5 ♀
28	W	Ox. & Cam. T. b.	7	27	20	38	18 18 17
29	T		8	25	21	52	18 19 18 Stormy.
30	F	Sun sets 7. 22.	9	23	19	1	19 21 20

M	Jupiter	Venus	Partridge. April, 1802. 15	
D	South	South		
1	9 a 15	0 a 15	New Moon 2d Day, at 3 Afternoon.	
6	8 56	0 22	First Quarter 9th Day, at Midnight.	
11	8 37	0 25	Full Moon 18th Day, at 3 Morning.	
16	8 18	0 30	Last Quarter 25th Day, at 6 Morning.	
21	7 59	0 35	1st Day h So. 9 a 34, δ 9 m 18, ♀ 10 m 25.	
26	7 40	0 40	16th D. 8 37, 9 6, 10 24.	

M	Lunar Aspects.						Clock	Moon	D rise	Observations.
D	☉	☿	♈	♉	♊	♋	bef. ☉	South	& sets	
1							4' 7"	11 m 1	5 m 8	God keep all qui-
2	♈					♈	3 49	11 50	sets	et at home, and pre-
3	3 Δ	Δ	*				3 31	0 a 40	8 a 8	serve Unity and
C						*	3 13	1 31	9 35	Concord in the U-
5	☐	☐	☐				2 55	2 24	11 0	nited Kingdom of
6	*						2 37	3 19	morn	Great Britain and
7		*		*	☐		2 20	4 14	0 19	Ireland. Some Part
8		*		Δ			2 2	5 9	1 24	of France and Ger-
9	☐				Δ		1 45	6 2	2 15	many perplexed.—
10					☐		1 28	6 52	2 52	Some great Officers
C							1 12	7 39	3 17	of State removed
12	Δ		♈	Δ			0 55	8 22	3 36	by Death, or other-
13		♈		♈			0 39	9 4	3 50	wife. Many Mes-
14							0 24	9 45	4 1	sengers are dif-
15						♈	0 8	10 25	4 12	patched to and fro
16							0 a 7	11 7	4 22	upon emergent Oc-
17	8 *	*					0 22	11 51	4 33	casions.
C	15		Δ	♈			0 36	morn	D rises	
19		☐					0 50	0 38	9 a 25	
20		☐			Δ		1 4	1 29	10 50	8 Edw. IV. died 1483
21			☐				1 17	2 24	morn	8 Pr. of Wales m. 1793
22	Δ	Δ	Δ		☐		1 30	3 23	0 9	11 W. & M. cro. 1683
23				*	Δ		1 42	4 24	1 12	14 Handel died 1759
24	☐						1 54	5 25	1 57	16 Batt. of Culloden 1746
C				☐	*		2 5	6 23	2 28	22 Hen. VII. died 1509
26		♈	♈				2 16	7 18	2 50	Total Eclipse of
27	*			♈	*		2 26	8 10	3 7	the Sun - 1711
28							2 36	8 59	3 21	23 Shakesp. died 1616
29							2 45	9 47	3 33	27 Dunkirk dep. 1713
30	Δ	Δ			♈		2 54	10 36	3 46	30 Bat. Fontenoy 1744

16 May hath XXXI Days.

Delightful May! thou fairest of the Train,  
With Joy we welcome thy Return again;  
Where e'er we go, Delights do us surround,  
And all the Fields are with fresh Verdure found;  
Bright Phœbus now doth lengthen out the Days,  
And with increasing Splendor Light displays.

M	h	u	D
D	m	u	8
1	1	26	36
6	1	26	18
11	1	26	18
16	1	27	17
21	1	27	17
26	1	27	17

M	W	Sundays and	long	long	8	8	8	Aspects and
D	D	Remark. Days.	°	°	°	°	°	Weather.
1	S	St. Phil. & Ja.	10	8	21	3	8	0 20 22 22
2	C	2 S. aft. Easter	11	19	16	47	21	23 24 Cold winds,
3	M	Inv. of the Cross	12	18	0	11	16	21 24 25 Δ 24 8
4	T		13	16	13	27	22	25 27 □ 24 8
5	W	Easter T. beg.	14	14	26	17	23	27 29 Δ 2 8
6	T	John Ev. A.P.L.	15	12	8	49	24	28 8 with some
7	F		16	10	21	3	24	29 3 showers of
8	S	Sun rises 4. 24	17	8	3	8	4	25 11 5 □ 2 8
9	C	3 S. aft. Easter	18	6	14	57	26	2 7 rain.
10	M		19	4	26	46	27	3 9
11	T	Sun sets 7. 41.	20	2	8	37	27	4 11
12	W		20	59	20	35	28	5 13 Very good
13	T	Old May Day	21	57	2	45	29	7 15 spring wea-
14	F		22	55	15	11	30	8 17 ther.
15	S	Sun rises 4. 13.	23	53	27	56	1	9 19
16	C	4 S. aft. Easter	24	51	11	11	1	10 21
17	M	Prs. of Wales b.	25	48	24	26	2	11 24 { □ 24,
18	T	Sun sets 7. 51.	26	46	8	8	9	3 13 26 { 6 24,
19	W	Q. Cha. b. Dun-	27	44	22	7	4	14 28 { □ 24,
20	T	[Stan	28	41	6	15	16	4 15 11 □ 2 8
21	F	Sun rises 4. 5.	29	39	20	29	5	16 2 * 8 8
22	S	Prs Eliz. born	0	11	37	4	44	6 18 5 □ 2 8
23	C	Rogation Sund.	1	34	18	58	7	19 7 Brisk winds,
24	M	Sun sets 7. 59.	2	32	3	3	7	7 20 9 with showers
25	T		3	29	17	11	8	21 11 of rain.
26	W	August. Abp.	4	27	1	9	9	22 13
27	T	Asc. Holy Thut.	5	24	15	0	10	24 15 Fair and dry
28	F	[Ven. Bede.	6	22	28	44	10	25 17 at the end.
29	S	K. Chr. II. resto.	7	20	12	8	19	11 26 19
30	C	S. at. Ascension	8	17	25	42	12	27 21 * 24 8
31	M	Easter T. ends	9	15	8	11	53	13 29 23

M D	Jupiter South	Venus South	Partridge. May, 1802. 17
1	7 a 22	o a 46	New Moon 2d Day, at 2 Morning
6	7 3	o 52	First Quarter 9th Day, at 7 Night.
11	6 44	o 58	Full Moon 17th Day, at 3 Afternoon.
16	6 25	1 4	Last Quarter 24th Day, at 11 Morning.
21	6 7	1 10	New Moon 31st Day, at 1 Afternoon
26	5 49	1 17	1st Day h So. 7 a 40, δ 8 m 53, ♄ 10 m 56

M D	Lunar Aspects.						Clock flow	Moon South	D rises & sets	Observations.
1	♂						3'	2	11 m 25 3 m 59	The Heavens seem to intimate very e- minent Consultati- ons now depend- ing; very deliberate Councils are on foot, God Almighty di- rect their Endeav- ours therein. — Hopeful News or Intelligence arrives now or near this Time.
C 14	□	*	♂				3	10	o a 17 sets	
3	□						3	17 1	11 9 a 56	
4			□				3	23 2	7 11 14	
5	*	*			*		3	29 3	3 morn.	
6	*						3	35 3	57 0 11	
7			Δ	*			3	40 4	49 0 55	
8					□		3	44 5	37 1 24	
C 10	□						3	48 6	22 1 44	
11	♂	♂		□			3	51 7	4 2 0	
12	Δ		♂		Δ		3	54 7	45 2 13	
13					Δ		3	56 8	25 2 24	
14		*					3	58 9	5 2 34	
15	*						3	59 9	48 2 43	
C 16							3	59 10	33 2 55	
17	♂	□	Δ		♂		3	59 11	23 3 9	1 Dryden died 1700 4 Hen. VI. mur- dered 1471 14 Anne Bulleyne beheaded 1504 17 D. of Marlbo- rough died 1722 — Princes of Wales born 1768 19 Battle of La Hogue 1692 27 J. Calvin died 1554
18	3	□	♂				3	58	morn. rises	
19	Δ	Δ	□				3	57 0	17 9 a 54	
20							3	55 1	16 11 3	
21	Δ						3	53 2	18 11 57	
22			*		Δ		3	50 3	20 morn.	
C 23	□	♂	♂	Δ			3	46 4	20 0 32	
24				□			3	42 5	16 0 57	
25					□		3	39 6	8 1 14	
26	*		♂		*		3	33 6	57 1 29	
27				*	*		3	27 7	44 1 40	
28	Δ	Δ					3	21 8	31 1 53	
29							3	14 9	19 2 7	
C 30	□	□					2	7 10	8 2 21	
31	♂		*				2	51 11	55 sets.	

The Sun approaching his Apogee Seat,  
 Thro' fluid Air diffuses liberal Heat;  
 Unto the Pole the lengthen'd Day explores,  
 And with his Rays salutes the Northern Shores;  
 Upon his Journey constantly proceeds,  
 And enters Cancer with his fiery Steeds.

M	h	u	D
D	m	n	s
1	1	28	X
6	2	29	16
11	2	29	16
16	2	29	16
21	3	1	16
26	3	1	15

M	W	Sundays and	long	long	δ	♀	♂	Aspects and
D	D	Remark. Days.	°	°	°	°	°	Weather.
1	Tu	Nicomede	10	11	12	21	11	48
2	W	Sun rises 3 52	11	10	4	28	14	27
3	T	Ox. T. e. Cam. T. d. m.	16	53	15	22	29	Fair and hot
4	F	K. Geo. III. b.	13	4	29	3	16	3
5	S	D. of Cumb. b.	11	11	11	2	16	5
6	C	Whit Sunday	14	59	22	53	17	6
7	M	Whit Monday	15	57	4	42	18	7
8	Tu	Whit Tuesday	16	54	16	32	19	8
9	W	Ember Week	17	51	28	30	19	10
10	T		18	49	10	41	20	11
11	F	St. Barnabas	19	46	23	10	21	12
12	S	Sun sets 8 19	20	43	6	11	13	14
13	C	Trinity Sunday	21	40	19	17	22	14
14	M	Sun rises 3 44	22	38	2	57	23	16
15	Tu		23	35	17	0	24	17
16	W	Oxford T. beg.	24	32	14	22	24	18
17	T	Alban. Cor. Ch.	25	29	15	56	25	19
18	F	Trin. T. beg.	26	27	4	35	26	20
19	S		27	24	15	12	27	22
20	C	1 S. a. Tr. Tr. Ed. K.	29	18	14	4	27	23
21	M	Longest Day.	29	18	14	4	28	24
22	Tu		0	16	28	5	29	25
23	W	Sun sets 8 17	1	13	11	57	8	27
24	T	Nat. J. Bapt. Midsum.	25	35	0	28	27	27
25	F		3	7	9	8	1	29
26	S	Sun rises 3 44	4	5	24	15	2	29
27	C	2 S. after Trin.	5	2	5	11	2	29
28	M		5	59	18	6	3	3
29	Tu	St. Peter	6	56	0	43	4	4
30	W	Sun sets 8 15	7	53	13	8	5	5

M D	Jupiter South	Venus South	Partridge. June, 1802.	19
1	5 2 28	1 2 25	First Quarter 8th Day, at 1 Afternoon.	
6	5 9	1 31	Full Moon 15th Day, at Midnight.	
11	4 51	1 36	Last Quarter 22d Day, at 4 Afternoon.	
16	4 33	1 42	New Moon 30th Day, at 1 Morning.	
21	4 15	1 47	1st Day h So. 5 2 41, 8 8 m 17, 8 1 2 5.	
26	3 57	1 53	16th D. 4 42, 7 56, 1 47.	

M D	Lunar Aspects.						Clock aft. ☉	Moon South	☾ rises & sets	Observations.
1	☉	♂	♂	♂	♂	♂	2 43	0 2 50	9 2 59	The Heavens smile on deserving Men, and Honour may be conferred on them. I cannot say we are free from Repinings, tending to a Dissatisfaction and Division to some. The Euro- pean Nations hav- ing been active, be- gin now to wish for Ease.
2			☐				2 34	1 46	10 48	
3							2 24	2 38	11 22	
4							2 15	3 28	11 45	
5	*		Δ				2 44	14	morn.	
6	☉	♂	♂				1 54	4 57	0 3	
7				*	*		1 43	5 38	0 16	
8	☐						1 32	6 17	0 28	
9							1 21	6 57	0 38	
10	Δ		8	☐	☐		1 10	7 38	0 48	
11		*	*				0 58	8 21	0 58	1 Lord Howe beat the French feet 1794 7 Belleisle taken 1761 8 Seven Bishops sent to the Tower 1688 10 Geo. I. died 1727 16 Battle of Det- tingen 1743 17 Addison died 1719 18 Mahomet died 631
12				Δ	Δ		0 46	9 8	1 10	
13	C		☐				0 34	10 0	1 26	
14		☐					0 22	10 53	1 47	
15	8		Δ	Δ			0 10	morn.	rises	
16	12	Δ					obef. 30	0 9	2 46	
17			☐	8	8		0 16	1 3	3 10	
18							0 29	2 6	4 10	
19	Δ		*				0 41	3 5	5 11	
20	C	8	8				0 54	3 59	6 11	
21				Δ	Δ		1 7	4 50	7 11	
22	☐						1 20	5 38	8 11	
23							1 33	6 25	morn.	
24	*	Δ	Δ	♂	☐	☐	1 46	7 11	0 8	
25							1 59	8 0	0 22	
26	☐	☐	*	*			2 12	8 50	0 40	
27	C						2 24	9 43	1 5	
28							2 37	10 37	1 38	
29	♂	*	*	*			2 49	11 32	2 24	
30	13						3 10	12 26	sets	

# July hath XXXI Days.

Now Lightnings blaze, and awful Thunders roll,  
The haughty Pride of Man for to controul;  
The angry Shafts with forky Vengeance fly,  
And thus the guilty Sinner terrify.  
God sends his glittering Arrows thro' the Air,  
And tells them whom to kill and whom to spare.

M	h	u	d
D	nr	nr	or
1	3	2	X
6	4	3	15
11	4	4	14
16	5	5	14
21	5	6	14
26	6	7	14

I	W	Sundays and	long	long	δ	♀	♂	Aspects and
D	Remark.	Days.	°	°	8	Ω	Ω	Weather.
1	T	Sun rises 3 46	8 25	51	25	21	5 6	1 I expect some
2	F	Visit. of V. M.	9 48	7	24	6 7	2	showers now
3	S	Dog Days beg.	10 45	19	18	7 9	2	about.
4	C	3 S. af. Trin. Tr.	11 42	1	7	7 10	2	
5	M	[St. Mart	12 40	12	54	8 11	R	
6	Tu	Camb. Com.	O. Mid.	24	43	9 12	2	
7	W	Trin. T. e. Th.	14 34	6	40	9 13	2	Fair and hot
8	T	[a Becket	15 31	18	50	10 15	2	about this
9	F	Cam. Ter. ends	16 28	1	18	11 16	1	time.
10	S	Sun sets 8 8	17 26	14	9	12 17	1	
11	C	4 S. aft. Trin.	18 23	27	27	12 18	-1	
12	M	Oxford Act	19 20	11	11	13 19	0	Brief winds,
13	Tu		20 17	25	23	14 21	25	inclined to
14	W	Sun rises 3 56	21 14	9	58	14 22	29	dryness.
15	T	Swithin	22 12	24	50	15 23	28	6 h 4
16	F		23 9	9	49	16 24	18	
17	S	Oxf. Term ends	24 6	24	48	16 25	27	Thunder
18	C	5 S. aft. Trin.	25 3	9	38	17 27	26	6 0 8
19	M		26 1	24	13	18 28	26	showers now
20	Tu	Margaret	26 58	8	29	19 29	25	about.
21	W	Sun sets 7 56	27 55	22	25	19 22	24	
22	T	Mary Magdalen	28 52	6	8	1 20	1 24	
23	F		29 50	19	19	21 3	23	Warm, wea-
24	S		0 47	2	19	21 4	23	ther, but not
25	C	6 S. af. Tr. St. Jace	1 44	15	5	22 5	22	6 h 8
26	M	Anne	2 42	27	37	23 6	22	6 8 8
27	Tu		3 39	9	38	23 7	22	6 4 8
28	W	Sun rises 4 14	4 37	22	8	24 9	21	without some
29	T		5 34	4	10	25 10	21	showers.
30	F	Sun sets 7 43	6 31	16	4	25 11	21	
31	S		7 29	27	54	26 12	21	



M D	Jupiter South	Venus South	Partridge. July, 1802. 2	
1	3 a 40	1 a 58	First Quarter 8th Day, at 5 Morning.	
6	3 23	2 2	Full Moon 15th Day, at 7 Morning.	
11	3 6	2 6	Last Quarter 21st Day, at 10 Night.	
16	2 49	2 9	New Moon 29th Day, at 3 Aftern.	
21	2 32	2 12	1st Day 1/2 So. 3 a 45, 3 7 m 35, 3 1 a 33	
26	2 16	2 15	16th D. 2 49, 3 10, 3 15	

M D	Lunar Aspects.						Clock bef. ☉	Moon South	D rises & sets	Observations.
1						☐	3 13"	1 a 16	9 a 43	A busy Time i at hand, and sundr Actions of no smal Concern happen a Sea and at Land — Some Rumors o War and Commo tions seem to sur prise several Coun tries. The Mind and Thoughts of the People in many Places are full o Expectations.
2						☐	3 25 2	4 10 3		
3							3 37 2	4 10 18		
C	☐	☐	Δ				3 48 3	29 10 29		
5 *							3 59 4	8 10 39		
6						*	4 9 4	47 10 48		
7 ☐						*	4 19 5	27 10 58		
8							4 29 6	8 11 9		
9	*	*	8			☐	4 38 6	53 11 24		
10 Δ						☐	4 47 7	42 11 43		
C	☐	☐				Δ	4 56 8	36 morn.		4 The Rebellion began. 174 6 Hen. II. died 118 Edw. VI. died 155 Sir Fr. Moore beheaded 153 7 Edw. I. died 139 9 Czar Peter mur- dered 176 13. Peace of U- trecht 171 17 Cape - Breton taken 174 24 Gibraltar taken 170 29 Spanish Armada defeated 158
12						Δ	5 49 35	0 10		
13	Δ	Δ					5 11 10	39 0 52		
14 8			Δ				5 18 11	43 1 53		
15 19						8	5 25	morn rises		
16			☐				5 31 0	45 9 a 14		
17	8	8				8	5 37 1	43 9 32		
C			*				5 42 2	38 9 46		
19 Δ						Δ	5 47 3	28 9 59		
20							5 51 4	17 10 10		
21 ☐						Δ	5 54 5	4 10 25		
22	Δ	Δ					5 58 5	53 10 41		
23 *			☐			*	6 06	43 11 4		
24 C	☐	☐				☐	6 27	35 11 34		
C							6 48	29 morn		
26	*	*				*	6 49	23 0 15		
27						☐	6 55 10	17 1 11		
28			*				6 41 1	9 2 17		
29 ☐							6 41 1	57 sets		
30 3			☐				6 20 a 48	8 a 22		
31	☐	☐					6 01	25 8 34		



# 2 August hath XXXI Days.

Now waving Crops the fruitful Plains adorn,  
And soon they put their Sickle to the Corn;  
Universal Plenty every where abounds,  
Whilst Harvest-Home! from ev'ry Hill resounds.  
Thus God on us his Blessings does bestow,  
And makes our Cup with Plenty overflow.

M	h	u	D
D	hr	ur	Q
1	7	8	X
6	7	9	13
11	8	10	13
16	9	11	13
21	9	12	12
26	10	13	12

W	Sundays and	long	long	δ	♀	♂	Aspects and
D	Remark. Days.	o	o	h	hr	ms	Weather.
1	C 7 S. a. Tr. Lam-	8 26	9 40	27	13	22	
2	M [mas Day	9 24	21 27	27	15	22	Fine weather,
3	T	10 21	3 17	28	16	22	with gentle
4	W Sun rises 4 24	11 19	15 15	29	17	13	showers.
5	T	12 16	27 25	29	18	24	
6	F Transfiguration	13 14	9 51	11	19	24	
7	S Prs. Amel. h. Na. of J.	22 39	1 20	25			Hot and dry
8	C 8 S. after Trin.	15 9	5 52	1 22	26		weather.
9	M Sun sets 7 27	16 6	19 32	2 25	27		
10	Tu St. Lawrence	17 4	3 40	2 24	28		
11	W Dfs. Brunf. b. Dog D. e.	18 14	3 25	3 25			Now some
12	T Pr. Wales born.	18 59	3 9	4 26	1		wind and rain
13	F Old Lammass	19 57	18 17	4 28	2		may be ex-
14	S Sun rises 4 42	20 54	3 29	5 29	4		pected.
15	C 9 S. aft. Tr. Assumption	18 35	6 2	6			* δ ♀
16	M D. of York b.	22 50	3 27	6 1	7		
17	T	23 47	17 58	7 2	9		
18	W Sun sets 7 11	24 45	2 6	7 3	11		δ ♀ δ
19	T	25 43	15 48	8 5	13		
20	F Sun rises 4 52	26 41	29 6	9 6	14		Hot, with
21	S D. of Claren. b.	27 39	12 3	9 7	16		thunder
22	C 10 S. aft. Trin.	28 36	24 40	10 8	18		showers.
23	M	29 34	7 10	10 9	20		
24	Tu St. Bartholom.	29 32	19 11	11 10	22		
25	W Sun sets 6 58	1 30	1 10	12 12	24		Δ δ ♀
26	T	2 28	13 3	12 13	26		
27	F	3 26	24 52	13 14	28		Fine weather
28	S ☉ eclips. visible	4 24	6 23	13 15	29		δ ♀ δ
29	C 11 S. a. Tr. Beh.	5 22	8 27	14 16	2		for the next
30	T J. Bap.	6 20	0 17	15 17	4		part.
31	W	7 18	12 12	15 19	6		

M D	Jupiter South	Venus South	Partridge. August, 1802.	23
1	1 a 57	2 a 17	First Quarter 6th Day, at 7 Night.	
6	1 42	2 20	Full Moon 13th Day, at 3 Afternoon.	
11	1 27	2 23	Last Quarter 20th Day, at 7 Morning.	
16	1 12	2 25	New Moon 28th Day, at 7 Morning.	
21	0 57	2 27	1st Day $\frac{1}{2}$ So. 1 a 53, $\delta$ 6m 54, $\gamma$ 10m 47.	
26	0 42	2 29	16th D. 1 2, 6 37, 10 58.	

M D	Lunar Aspects.						Clock bef. ☉	Moon South	Rises & sets	Observations.
C	☉	☿	♄	♊	♋	♌	5 57	2 a 5	8 a 45	In the last Month happened the grand Conjunction of Jupiter and Saturn in Virgo, which shews Insurrections, popular Murmurings, & Augmentations of Wars, Tumults, and Commotions. — Some Dearth of Corn and other Fruits of the Earth.
2			Δ		*		5 54	2 44	8 56	
3	*						5 50	3 23	9 5	
4					□		5 46	4 39	15	
5		*	*				5 40	4 46	9 28	
6	□				*		5 35	5 32	9 43	
7				8		Δ	5 28	6 23	10 7	
C	Δ	□	□				5 21	7 19	10 41	
9					□		5 14	8 19	11 31	
10		Δ	Δ				5 59	22	morn.	
11				Δ	8		4 57	10 26	0 42	1 Queen Anne died 1714 2 Ld. Nelson beat the French fleet near Egypt 1798 5 Crown Point taken 1759 6 King James II. died 1701 8 Cherbourg taken 1758 16 In a Rebellion in Ireland slain 200,000 1642 22 K. Richard III. killed in Bosworth field 1485
12				Δ			4 47	11 26	2 13	
13	8						4 37	morn.	rises	
14	3	8	8	□			4 27	0 24	7 a 52	
C				8			4 16	1 18	8 6	
16			*		Δ		4 4	2 9	8 18	
17	Δ						3 52	2 59	8 32	
18		Δ	Δ		□		3 40	3 49	8 50	
19	□						3 26	4 40	9 10	
20		□		Δ			3 13	5 33	9 39	
21			□		*		2 59	6 28	10 17	
C	*						2 45	7 23	11 8	
23		*	*		□		2 30	8 17	morn.	
24							2 14	9 9	0 11	
25							1 59	9 59	1 23	
26			*	*			1 43	10 45	2 37	
27	Δ				Δ		1 26	11 29	3 51	
28	19	Δ	Δ	□			1 9	0 a 10	sets	
C							0 52	0 49	7 a 8	
30							0 35	1 28	7 18	
31			Δ	Δ			0 17	2 8	7 29	

# 4 September hath XXX Days.

Darkness and Light now the just Balance weigh,  
And equally proportions Night and Day;  
The Sun thus passing thro' the heav'nly Signs,  
The four Quarters of the Year defines;  
The Days and Nights again now equal are,  
And North and South an equal Portion share.

M	h	u	D
D	u	u	S
1	11	15	✕
6	11	16	11
11	12	17	11
16	12	18	11
21	13	19	11
26	14	20	10

W	Sundays and	long	long	♂	♀	♀	Aspects and
D	Remark. Days.	o	o	u	u	u	Weather.
1	W Giles	8 <sup>u</sup> 17	24 <sup>u</sup> 15	16	20	8	♂ ☉ ♀
2	T Lon. burnt 1666	9 15	6 <sup>m</sup> 30	16	21	10	♂ ♀ ♀
3	F	10 13	18 58	17	22	12	♂ ☉ ♀
4	S Sun rises 5 21	11 11	1 <sup>h</sup> 45	18	23	14	Windy, with
5	<b>C 12 S. aft. Trin.</b>	12 9	14 53	18	24	16	♂ ♀ ♀
6	M	13 8	28 25	19	25	17	frequent
7	Tu Enurchus	14 6	12 <sup>h</sup> 21	19	27	19	☐ ♂ ♀
8	W Nativ. of V. M.	15 4	26 43	20	28	21	showers.
9	T	16 2	11 <sup>m</sup> 27	20	29	23	♂ ☉ ♀
10	F Sun sets 6 28	17 1	26 27	21	30	25	
11	S ☽ eclips. visib.	17 59	11 <sup>h</sup> 37	21	1	26	Fine weather
12	<b>C 13 S. aft. Trin.</b>	18 58	26 47	22	2	28	now about.
13	M	19 56	11 <sup>h</sup> 47	22	3	30	
14	Tu Holy Cross	20 55	26 30	23	5	1	
15	W <b>Ember Week</b>	21 53	10 <sup>h</sup> 49	23	6	3	Warm, and
16	T Sun rises 5 44	22 52	24 41	24	7	5	perhaps, some
17	F Lambert	23 50	8 <sup>h</sup> 6	25	8	6	thunder.
18	S	24 49	21 6	25	9	8	☐ ☉ ♂
19	<b>C 14 S. aft. Trin.</b>	25 47	3 <sup>h</sup> 42	26	10	10	
20	M Sun sets 6 8	26 46	16 0	26	11	11	
21	Tu <b>St. Matthew</b>	27 45	28 4	27	12	13	* ♀ ♀
22	W <b>K. Geo. 3. crow.</b>	28 44	9 <sup>h</sup> 58	27	13	14	
23	T	29 43	21 47	28	15	16	
24	F Sun rises 6 0	0 <sup>h</sup> 41	3 <sup>h</sup> 33	28	16	18	Fine and plea-
25	S	1 40	15 21	28	17	19	sant weather
26	<b>C 15 S. a. T. O. H.</b>	2 39	27 13	29	18	21	now even to
27	M [R. St. Cypr.	3 38	9 <sup>h</sup> 10	29	19	22	the end.
28	Tu Sun sets 5 53	4 37	21 16	30	20	24	* ♀ ♀
29	W <b>St. Mich. Dis. Wirt. b.</b>		3 <sup>m</sup> 31	0	21	25	
30	T Jerome	6 35	15 58	1	22	26	

M. D.	Jupiter South	Venus South	Partridge, September, 1802. 25	
1	0 2 25	2 2 32	First Quarter 5th Day, at 7 Morning.	
6	0 11	2 36	Full Moon 11th Day, at 11 Night.	
11	11 m 57	2 40	Last Quarter 18th Day, at 8 Night.	
16	11 43	2 43	New Moon 26th Day, at Midnight.	
21	11 29	2 47	1st Day h So. 0 2 11, δ 6 m 19, ♀ 0 3.	
26	11 15	2 50	16th D. 11 m 33, 6 1, 0 45	

M. Lunar Aspects.							Clock	Moon	D rises
D	☉	☿	♈	♊	♋	♌	last. ☉	South	& sets
1							0 2	2 250	7 2 42
2	*	*	*			*	0 20	3 34	7 55
3							0 39	4 22	8 15
4	☐	☐					0 58	5 15	8 44
C			☐	8	*	☐	1 18	6 12	9 25
6		Δ					1 37	7 13	10 26
7	Δ		Δ			Δ	1 57	8 14	11 45
8					☐		2 18	9 15	morn.
9				Δ			2 38	10 13	1 18
10					Δ		2 59	11 9	2 53
11	8	8	8	☐			3 19	morn.	rises
C	11				8	-	3 40	0 16	a 32
13				*			4 10	53	6 46
14					8		4 22	1 45	7 12
15	Δ	Δ	Δ				4 43	2 37	7 22
16						Δ	5 43	3 32	7 46
17		☐	☐				5 25	4 27	8 22
18	☐			♋			5 46	5 24	9 10
C		*	*		Δ	☐	6 7	6 20	10 10
20	*		*				6 28	7 13	11 20
21							6 49	8 4	morn.
22					☐	*	7 10	8 52	0 34
23				*			7 31	9 36	1 48
24		♋					7 51	10 18	3 1
25			♋		*		8 12	10 58	4 12
C	♋			☐			8 32	11 37	sets
27	12						8 52	0 2 17	5 2 47
28				Δ		♋	9 12	0 59	6 0
29		*					9 31	1 42	6 13
30		*			♋		9 51	2 29	6 31

### Observations.

The Sun's Eclipse visible last Month, will stir up some Divisions, and likewise threatens the Death of some great Man; perhaps some Cardinal of the Church of *Rome*.— God preserve our Metropolis from Fires, and all other Disasters whatever.

- 3 Cromwell died 1658
- 5 Bp. Bonner di. 1569
- 8 George III. and Char. wedded 1761
- 11 William the Conqueror died 1087
- 16 Geo. I. landed 1714
- 21 Edward II. murdered 1327
- 29 Richard II. deposed 1399

The Husbandman does now, with prudent Care,  
 For a future Harvest carefully prepare;  
 Unto the Ground his Seed does now commit,  
 God grant the Season may his Purpose fit;  
 Cause all Obstructions to the Crop to cease,  
 And crown his Labours with a vast Increase.

M	h	4	D
D	m	m	Q
1	14	21	X
6	15	22	10
11	15	23	10
16	16	24	5
21	17	25	9
26	17	26	9

M	W	Sundays and	☉ long	☽ long	☿	♀	♂	Aspects and	
D	D	Remark. Days.	°	°	25	m	25	Weather.	
1	F	Remigius	7	34	28	m	37	1 23 28	
2	S		8	33	11	f	30	2 24 29	
3		<b>C 16 S. aft. Trin.</b>	9	33	24	39	2 26 m	October begins with fine and	
4	M	Sun rises 6 19	10	32	8	h	6	3 27 2	
5	Tu		11	31	21	53	3 28 3	Δ δ ♀ pleasant	
6	W	Faith	12	30	5	m	59	3 29 5	weather.
7	T	Sun sets 5 35	13	29	20	23	4 f	4 1 6	
8	F		14	29	5	X	4	4 1 7	
9	S	St. Denys	15	28	19	56	5 2	5 2 9	Cloudy and
10		<b>C 17 S. a. Tr. Ox. &amp; Cam.</b>	16	27	4	v	53	5 3 10	dull, but ra-
11	M	O. Mich. [T. b.]	17	27	19	47	5 4	5 4 11	ther cool.
12	Tu		18	26	4	8	28	6 5 12	
13	W	Transf. Ed. Conf.	19	26	18	51	6 6	6 6 13	
14	T		20	25	2	II	49	6 7 15	
15	F	Sun rises 6 41	21	25	16	21	7 8	7 8 16	δ h ♀
16	S		22	24	29	26	7 9	7 9 17	
17		<b>C 18 S. a. Tr. Etheldred</b>	23	23	12	26	6	7 10 18	Wind and
18	M	<b>St. Luke</b>	24	23	24	25	8 11	8 11 19	rain now
19	Tu		25	23	6	R	29	8 12 20	about.
20	W	Sun sets 5 10	26	23	18	22	8 13	8 13 21	
21	T		27	23	0	m	9	9 14 21	
22	F	Sun rises 5 6	28	22	11	56	9 15	9 15 22	
23	S		29	22	23	56	9 16	9 16 23	□ h ♀
24		<b>C 19 S. aft. Trin.</b>	30	22	5	46	9 17	9 17 24	
25	M	<b>K. Geo. 3. acc.</b>	31	22	17	52	10 18	10 18 24	
26	Tu	<b>K. Geo. 3. proc.</b>	2	22	0	m	11	10 19 24	Rough winds
27	W		3	22	12	44	10 20	10 20 25	with showers
28	T	<b>St. Simon &amp; Jude</b>	4	22	25	29	0	21 25	of rain.
29	F	Sun sets 4 53	5	22	8	f	27	11 22 25	
30	S		6	22	21	37	11 23	11 23 25	
31		<b>C 20 S. aft. Trin.</b>	7	22	4	59	11 24	11 24 25	



M *Jupiter* *Venus*  
D South South

Partridge. October, 1802. 27

1 11 m 1 2 a 53 First Quarter 4th Day, at 5 Afternoon.  
6 10 47 2 57 Full Moon 11th Day, at 8 Morning.  
11 10 32 3 0 Last Quarter 18th Day, at 12 Noon.  
16 10 17 3 4 New Moon 26th Day, at 5 Afternoon.  
21 10 2 3 8 1st Day h So. 10 m 37, d 5 m 37, e 1 a 14.  
26 9 47 3 11 16th D. 9 48, 5 8, 1 32.

M	Lunar Aspects.						Clock	Moon	D rise	Observations.
D	☉	☿	♊	♋	♌	♍	aft. ☉	South	& sets	
1	*						10 10	3 a 20	6 a 56	Various News from several Parts beyond the Seas; Ambassadors arrive in and from several Parts; but to what Effect?
2		☐	☐				10 29	4 15	7 32	
3	C			♋		*	10 48	5 13	8 26	
4		☐	Δ				11 6	6 13	9 37	
5			Δ		*	☐	11 24	7 12	11 1	
6		Δ					11 42	8 9	morn.	
7						☐	11 59	9 30	32	
8		♋		Δ		Δ	12 16	9 56	2 4	
9			♋		Δ		12 32	10 47	3 39	
10	C	♋		☐			12 49	11 38	5 2	
11	20						13 4	morn.	rises	4 New River bro. to London 1614 5 Old Parr died, at 152 1631 8 Admir. Benbow died 1701 11 Lord Duncan beat the Dutch fleet 1791 16 Bishops. Lat. and Rid. burnt. 1531 — Ma. Antoinette Qu. of France beheaded 1791 19 King John died 1211 20 Admir. Belcher cast away 1741 22 Sir Clo. Shovel lost 1701 24 Battle of Agin- court 1411 25 King Stephen died 1135 26 Bible translated into English 1535
12			Δ		*	♋	13 19	0 30	5 a 32	
13				Δ			13 34	1 25	5 55	
14		☐				♋	13 48	2 21	6 26	
15		Δ		☐			14 23	3 19	7 9	
16					♋		14 15	4 17	8 7	
17	C	*				Δ	14 27	5 13	9 14	
18		☐		*			14 39	6 6	10 28	
19					Δ		14 50	6 55	11 41	
20	*					☐	15 17	7 40	morn.	
21				*			15 11	8 23	0 54	
22		♋			☐		15 20	9 32	6	
23			♋			*	15 28	9 42	3 16	
24	C			☐			15 36	10 22	4 27	
25					*		15 43	11 35	39	
26	♋			Δ			15 5	11 46	sets	
27	5	*			♋		15 56	0 a 32	4 a 43	
28			*				16 11	1 22	5 7	
29		☐					16 52	1 16	5 40	
30				☐	♋		16 83	1 14	6 28	
31	C	*	Δ		♋		16 114	1 12	7 33	

Now Sol in Southern Seas his Glory hides,  
 And dark'ning Fogs surround th. Mountain's Sides;  
 The heavy Rains now make the Rivers swell,  
 And the thick Mists the Sun can scarce dispell;  
 Thus dark November does excite our Care,  
 Against approaching Winter to prepare.

M	b	u	D
D	m	m	8
1	18	27	X
6	18	28	8
11	18	29	8
6	19	△	7
21	19	○	7
26	20	1	7

M	W	Sundays and	○ long	→ long	δ	♀	♂	Aspects and
D	D	Remark. Days	° m'	°	°	°	°	Weather.
1	M	All Saints	8 m 22	18 32	11	25	24	Some rough
2	Tu	D. of Kent b. All Souls		2 17	11	26	24	cold winds.
3	W	Prs. Sophia born	10 23	16 14	12	27	23	
4	T	K. Will. landed	11 23	0 X 22	12	27	22	△ ○ ♂, □ ♀
5	F	Powder Plot	12 23	14 42	12	28	21	Wet and cold
6	S	Mich. T. b. Leo.	13 23	29 9	12	29	20	for a few
7	C	21 S. aft. Trin.	14 24	13 42	12	29	19	* ♀ ♂
8	M	Prs. Aug. Sop. h.	15 24	28 14	12	1 18		○ ○ ♂
9	T	Ld. Mayor's D.	16 24	12 8 39	12	2 16		days.
10	W	Sun rises 7 28	17 25	26 50	12	3 15		
11	T	St. Martin	18 25	10 11 43	12	3 14		* ○ ♀
12	F	Cam. T. div. m.	19 25	24 13	12	4 12		△ ♂ ♂
13	S	Brigius	20 26	7 19	12	5 11		
14	C	22 S. aft. Trin.	21 26	20 1	12	6 11		Cold winds
15	M	Machutus	22 27	2 23	12	6 10		still blow.
16	Tu	Sun sets 4 22	23 27	14 28	12	7 9		
17	W	Hugh Bp. Lin.	24 28	26 22	12	8 9		
18	T	Sun rises 7 41	25 28	8 10	12	9 D		* ♀ ♂
19	F	Sun sets 4 18	26 29	19 57	12	9 9		
20	S	Edmund K. & M	27 30	1 50	12	10 9		Sleet or cold
21	C	23 S. aft. Trin.	28 30	13 53	12	10 10		rains.
22	M	Cecilia	29 31	26 9	12	11 10		
23	Tu	Clement. Old	○ † 32	8 m 41	12	12 11		* ○ ♀, ♂ ♂ ♀
24	W	[Mart.	1 33	21 31	12	12 12		△ ♂ ♂
25	T	D. of Glo. b. Ca	2 33	4 † 38	12	13 13		
26	F	[therine	3 34	18 0	12	13 14		Windy, wet,
27	S	Sun rises 7 53	4 35	1 35	12	14 15		and cold.
28	C	Adv. S. M. T. e.	5 36	15 21	11	14 16		
29	M	Sun sets 4 5	6 37	29 13	11	15 17		
30	Tu	St. Andrew	7 38	13 10	11	15 18		Frosty.

M Jupiter Venus  
D South South

Partridge. November, 1802. 29

19 m 28 3 a 2 First Quarter 3d Day, at 1 Morning.  
69 11 3 12 Full Moon 9th Day, at 7 Night.  
118 54 3 10 Last Quarter 17th Day, at 8 Morning.  
168 37 3 6 New Moon 25th Day, at 8 Morning.  
218 20 3 1 1st Day 1/2 So. 8 m 56, 3 4 m 27, 8 1 a 1.  
268 22 54 16th D. 7 58, 3 30, 11 m o.

M	Lunar Aspects.						Clock	Moon	rise	Observations.
D	☉	☿	♊	♋	♌	♍	aft. ☉	South	& sets	
1			Δ			*	16 13	5 a 12	8 a 54	The Aspects of this Month are many, and most of them of a benevolent Nature. I hope all will tend to the Good and Tranquility of Nations, and the restless Tribe will be better satisfied in their Minds than formerly. — Some News arrives from <i>France</i> and <i>Spain</i> .
2	☐						16 14	6 7	10 19	
3					*	☐	16 14	7 0	11 48	
4	Δ		Δ				16 14	7 51	morn.	
5		8	8			Δ	16 13	8 40	1 16	
6				☐	☐		16 11	9 29	2 43	
C							16 8	10 15	4 10	
8					Δ		16 4	11 11	5 37	
9	8	Δ		*		8	16 0	morn.	rises	
10	7		Δ				15 55	0 6	4 a 24	
11		☐					15 48	1 45	0	1 Lisbon destroy. 1755 5 Powder Plot 160 11 Battle of Preston 1711 13 Danes Massac. 100 16 Hen. III. died 127 17 Queen Mary died 169 20 Queen Caroline died 173 22 Porto Bello taken 173 28 Card. Wolfey died 153
12			☐		8		15 41	2 25	54	
13		*		♌	Δ		15 33	3 16	59	
C	Δ		*				15 25	3 56	8 11	
15						☐	15 15	4 47	9 25	
16	☐						15 5	5 34	10 40	
17							14 53	6 18	11 51	
18				*	Δ	*	14 41	6 59	morn.	
19	*	♌	♌				14 28	7 38	1 0	
20				☐	☐		14 14	8 18	2 11	
C							13 59	8 57	3 21	
22							13 44	9 38	4 33	
23		*		Δ	*	♌	13 27	10 23	5 49	
24	♌		*				13 10	11 12	7 8	
25	20						12 52	0 a 5	sets	
26		☐					12 34	1 24	a 17	
27			☐	8	♌		12 14	2 15	15	
C		Δ			*		11 54	3 16	36	
29	*		Δ				11 33	3 58	3 2	
30						☐	11 12	4 52	9 3	



Last comes December, ling'ring in the Rear,  
 And now the Cold is rigid and severe;  
 The circling Year almost its Course has run,  
 And the short Days do scarce admit the Sun.  
 Now let us all the Lord of Hosts implore,  
 To be our Friend when Time shall be no more.

M	D	h	m	s
1	20	2	4	6
6	20	3	7	6
11	20	3	6	6
16	20	4	6	6
21	21	5	6	6
26	21	5	6	6

M	W	Sundays and	long	long	δ	♀	♂	Aspects and		
D	D	Remark. Days.	°	°	°	°	°	Weather.		
1	W		8	39	27	11	11	15	20	* h ♀
2	T	Sun rises 7 58	9	39	11	15	10	16	21	
3	F	Sun sets 4 1	10	40	25	21	10	16	22	Frosty and cold
4	S		11	41	9	28	10	16	24	at the begin-
5		C 2 S. in Advent	12	42	23	36	10	17	25	ning.
6	M	Nicholas	13	43	7	40	9	17	26	
7	Tu		14	44	21	39	9	17	28	
8	W	Concep. of V.M.	15	45	5	27	9	17	29	Sleet or rain
9	T		16	46	19	1	8	17	1	
10	F	Sun rises 8 4	17	47	2	17	8	17	2	* u ♀
11	S		18	48	15	50	8	17	3	now about.
12		C 3 S. in Advent	19	49	27	53	7	17	5	□ ○ h
13	M	Lucy	20	50	10	13	7	17	7	
14	Tu		21	51	22	18	7	17	8	Frosty, and
15	W	Ember Week	22	52	4	12	6	17	10	perhaps snow.
16	T	Cam. T. e. O Sa.	23	54	16	1	6	17	11	
17	F	Oxford T. ends	24	55	27	49	6	16	13	
18	S	Sun sets 3 52	25	56	9	42	5	16	14	
19		C 4 S. in Advent	26	57	21	46	5	16	16	Foggy now
20	M		27	58	4	6	4	15	17	□ u δ
21	Tu	St. Thos. Short-	28	59	16	45	4	15	19	about.
22	W	{est Day	0	0	29	45	4	14	20	□ h ♀
23	T	Sun rises 8 8	2	1	13	8	3	14	23	
24	F		3	2	26	51	3	14	24	8 ○ δ
25	S	Christmas Day	4	3	10	51	2	13	25	Weather ra-
26		C 10. a. Chr. St. Stephen	25	4	2	13	27	13	27	ther open.
27	M	St. John's Ev.	6	5	9	24	2	12	28	□ ○ u
28	Tu	Innocents	8	6	23	46	1	11	29	□ u ♀, 8 δ ♀
29	W		9	7	8	5	1	11	1	Frost and
30	T	Sun sets 3 54	10	8	22	19	1	10	3	some snow.
31	F	Silvester	11	9	6	27	0	10	4	6 ○ ♀

M Jupiter Venus  
D South South

Partridge. December, 1802. 31

17	m 43	2 a 40	First Quarter 2d Day, at 9 Morning.
67	25	2 24	Full Moon 9th Day, at 8 Morning.
117	62	4	Last Quarter 17th Day, at 6 Morning.
166	46	1 40	New Moon 24th Day, at 10 Night.
216	25	1 13	First Quarter 31st Day, at 5 Evening.
266	30	42	1st Day 1/2 So. 6 m 59, 1/2 2 m 6, 1/2 10 m 44.

M	Lunar Aspects.						Clock	Moon	D rises	Observations.
D	☉	☿	♂	♀	♂	♀	aft. ☉	South	& sets	
1	☐						10 50	5 a 42	10 a 57	Now to end these Monthly Observa- tions, God send us happy Days; and that the Enemies of Great Britain may, like Nebuchadnezzar, be humbled, and be made to confess, that there is a God that ru- leth all the Nations of the Earth.
2		8	Δ	*	Δ		10 27	6 31	morn.	
3			8				10 37	18 0	21	
4	Δ			☐	☐		9 39	8 51	43	
C							9 15	8 55	3 8	
6		Δ		*	Δ		8 50	9 47	4 36	
7			Δ			8	8 24	10 42	6 3	
8	8						7 58	11 39	7 26	
9	20	☐					7 32	morn.	rises	
10			☐	♂			7 50	37 4	2 30	
11		*			8		6 37	1 34	5 40	1 Henry I. died 1134 2 Mariners comp. invented 1380 4 One hundred and thirty fall of Dutch ships taken 1664 12 Cromwell made Protector 1653 29 T. Becket mur- dered at Can- terbury 1171 30 Royal Society of London in- stituted 1660
C			*		Δ		6 02	2 27	6 56	
13	Δ						5 41	3 16	8 10	
14							5 13	4 19	25	
15				*		☐	4 44	4 44	10 35	
16	☐	♂			Δ		4 15	5 23	11 44	
17			♂	☐			3 45	6 2	morn.	
18					☐	*	3 16	6 41	0 54	
C	*						2 46	7 21	2 4	
20				Δ	*		2 16	8 33	17	
21		*					1 46	8 50	4 34	1 Henry I. died 1134 2 Mariners comp. invented 1380 4 One hundred and thirty fall of Dutch ships taken 1664 12 Cromwell made Protector 1653 29 T. Becket mur- dered at Can- terbury 1171 30 Royal Society of London in- stituted 1660
22			*				1 16	9 41	5 53	
23	☐					♂	0 46	10 37	7 12	
24	♂		☐	8			0 15	11 36	sets	
25	10	Δ			♂		0 b. 50	a 37	3 a 56	
C			Δ				0 45	1 36	5 30	
27							1 15	2 33	7 1	
28	*			Δ	*		1 45	3 26	8 30	
29		8		*			2 14	4 16	9 57	
30			8	☐	☐		2 44	5 31	11 22	
31	☐				☐		3 13	5 50	morn.	

A Compendious Chronology of the most principal Epochs and Eras, with their Beginnings, reduced and fixed to the Years of the Julian Period, the Creation of the World, and to the Years before and after Christ.

	Julian Period	Anno Mund	Ante Christ
<b>T</b> HE Creation of the World after the Jews	952	1	3760
The Common Epocha of the Creation	765	1	3950
The same by the Greek Emperors	787	1	3926
The same in Mr. Bedford's Scripture Chronology	706	1	4007
The same in Bishop Usher's Annals	710	1	4004
The Deluge, or Noah's Flood	2362	1657	2351
Porphyrius's Caldaic Epocha	2480	1717	2200
The Assyrian Monarchy by Nimrod	2665	1960	2048
The Birth of Abraham	2714	2009	1999
Joseph sold into Egypt	2986	2281	1728
The Israelites 400 Years Servitude in Egypt	2819	2114	1894
The Kingdom of Argos founded by Inachus	2857	2152	1856
The Birth of Moses	3143	2438	1571
The Kingd. of Athens founded by Cecrops	3157	2452	1556
The Israelites Departure out of Egypt	3219	2514	1494
Their Entrance into Canaan, or the Jubilee	3258	2553	1459
The Destruction of Troy	3530	2825	1483
The first Sabbatical Year	3260	2557	1451
The Jewish High Priesthood	3300	2603	1405
The Reign of King David	3646	2941	1067
The Foundation of Solomon's Temple	3698	2993	1015
The Varronian Epocha	3960	3197	811
The Catonian Epocha	3961	3198	810
The Epocha of Nabonassar	3966	3261	747
The Olympiads	3938	3233	775
The Building of Rome	3962	3257	751
The Destruction of the Kingd. of Israel	3992	3287	721
The Beginning of Nebuchadonofor	4105	3300	708
The Babylonish Captivity	4108	3302	706
The Destruction of Solomon's Temple	4126	3421	587

	Julian Period	Anno Mund	Anno Christi
Daniel delivered from the Den of Lions	4176	3470	538
The Temple of Jerusalem rebuilt	4198	3488	520
Cyrus the Founder of the Persian Monarchy	4178	3472	536
The Regifugium Epocha	4205	3500	508
The Battle at Marathon	4223	3517	491
Xerxes's Defeat at the Battle of Salamis	4234	3528	480
The Beginning of the Peloponnesian War	4281	3575	433
Meto the Athenian began his Circle	4282	3576	432
Daniel's 70 Weeks of Years began	4269	3564	444
The Beginning of the Callippick Period	4383	3677	331
The Death of Alexander	4390	3684	324
The Grecian Epocha of the Seleucidæ	4402	3695	312
The Era of the Asmoneans or Maccabees	4548	3841	166
The Epocha of Simon	4570	3865	143
The Julian Epocha, or Correct Calend	4669	3962	46
The Beginning of the Reign of Herod	4677	3970	37
The Spanish Era	4676	3969	36
The Battle of Actium	4683	3976	31
The taking of Alexandria	4684	3977	30
The Epocha of the Title of Augustus	4687	3980	27
The true Birth of CHRIST	4710	4005	4
The Vulgar or Dionysian Years of Christ	4714	4009	Anno Christi
The Passion or Death of Christ	4746	4041	33
The Destruction of Jerusalem	4783	4078	70
The Dioclesian or Era of Martyrs	4997	4292	284
The Dioclesian Persecution	5015	4310	302
The Epocha of Constantine the Great	5019	4314	306
The Council of Nice	5038	4333	325
The Encænna of Constantinople	5043	4338	330
Phocas makes Pope Boniface Head of the Church	5319	4614	606
Mahomet broaches his Imposture at Mecca	5321	4616	608
The Epocha of the Hegira	5335	4630	622
The Epocha of Yefdejerd	5345	4640	632
The Jehalæan or Gelælæan Epocha	5792	5087	1079
The Epocha of the Reformation	6230	5525	1517
The Revolution effected by King William	6401	5696	1688
The British Epocha, or correct Kalendar	6465	5760	1752

A TABLE of HOUSES for the Latitude of 51 Degrees  
32 Minutes, according to the Doctrine of Ptolemy,  
serving the City of London, &c.

☉ in ♍										☉ in ♏									
Time from noon.		10	11	12	Ascen					Time from noon.		10	11	12	Ascen				
		☉	♏	♏	♏	♏	♏					♏	♏	♏	♏	♏	♏		
h	m	gr	gr	gr	gr	m	gr	gr	gr	h	m	gr	gr	gr	gr	m	gr	gr	gr
0	0	0	9	22	26	42	12	3	3	1	52	0	9	17	16	31	4	28	
0	4	1	10	23	27	22	13	3	3	1	55	1	10	18	17	11	5	29	
0	7	2	11	24	28	2	14	4	4	1	59	2	11	19	17	51	6	30	
0	11	3	12	25	28	42	15	5	5	2	3	3	12	19	18	31	7	1	
0	15	4	13	25	29	21	15	6	6	2	7	4	13	20	19	12	8	2	
0	18	5	14	26	0	1	16	7	7	2	11	5	14	21	19	52	9	3	
0	22	6	15	27	0	40	17	8	8	2	15	6	15	22	20	32	9	4	
0	26	7	16	28	1	20	18	8	8	2	19	7	16	22	21	13	10	5	
0	29	8	17	29	2	0	18	9	9	2	22	8	17	23	21	54	11	6	
0	33	9	18	30	2	39	19	10	10	2	26	9	18	24	22	35	11	7	
0	37	10	19		1	3	19	20	11	2	30	10	19	25	23	16	12	8	
0	40	11	20		1	3	59	20	12	2	34	11	20	25	23	57	13	9	
0	44	12	21		2	4	38	21	13	2	38	12	21	26	24	38	14	10	
0	48	13	22		3	5	17	22	14	2	42	13	22	27	25	19	14	11	
0	51	14	23		4	5	57	23	15	2	46	14	23	28	26	0	15	12	
0	55	15	24		5	6	36	23	15	2	50	15	24	29	26	42	16	12	
0	59	16	25		6	7	15	24	16	2	54	16	25	29	27	24	17	13	
1	3	17	26		6	7	55	25	17	2	58	17	26	30	28	6	18	14	
1	6	18	27		7	8	34	26	18	3		2	18	27	1	28	47	18	15
1	10	19	28		8	9	14	26	19	3		6	19	28	2	29	30	19	16
1	14	20	29		9	9	53	27	19	3	10	20	29	3	0	13	20	17	
1	18	21	30		10	10	33	28	20	3	14	21	29	3	0	55	21	18	
1	21	22		1	10	11	12	28	21	3	18	22	30	4	1	37	22	18	
1	25	23		2	11	11	52	29	22	3	22	23	1	5	2	20	22	19	
1	29	24		3	12	12	32	30	23	3	26	24	2	6	3	2	23	20	
1	33	25		4	13	13	12	1	24	3	31	25	3	7	3	46	24	21	
1	36	26		5	14	13	52	1	25	3	35	26	4	7	4	29	25	22	
1	40	27		6	14	14	32	2	25	3	39	27	5	8	5	12	26	23	
1	44	28		7	15	15	12	3	26	3	43	28	6	9	5	55	27	24	
1	48	29		8	16	15	51	4	27	3	47	29	7	10	6	39	27	25	
1	52	30		9	17	16	31	4	28	3	51	30	8	11	7	22	28	25	

# TABLE OF HOUSES.

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A TABLE of HOUSES for the Latitude of 51 Degrees 32 Minutes, according to the Doctrine of Ptolemy, serving the City of London, &c.

☉ in ♀										☉ in ☊									
Time from noon.		Alcen								Time from noon.		Alcen							
h	m	10	11	12	1	2	3	4	5	h	m	10	11	12	1	2	3	4	5
h	m	gr	gr	gr	gr	m	gr	gr	gr	h	m	gr	gr	gr	gr	m	gr	gr	gr
3	51	0	8	11	7	22	28	25	6	0	0	6	6	0	0	24	24	24	24
3	55	1	9	12	8	6	29	26	6	4	1	7	7	0	47	25	25	25	25
4	0	2	10	13	8	50	30	27	6	9	2	8	8	1	33	26	26	26	26
4	4	3	10	14	9	34	1	28	6	13	3	9	9	2	19	27	27	27	27
4	8	4	11	15	10	18	2	29	6	17	4	10	10	3	5	27	28	28	28
4	12	5	12	16	11	3	2	30	6	22	5	11	11	3	51	28	29	29	29
4	16	6	13	17	11	47	3	1	6	26	6	12	12	4	37	29	30	30	30
4	21	7	14	17	12	31	4	2	6	31	7	13	13	5	23	30	31	31	31
4	25	8	15	18	13	16	5	3	6	35	8	14	14	6	9	1	2	2	2
4	29	9	16	19	14	1	6	4	6	39	9	15	15	6	55	2	3	3	3
4	33	10	17	20	14	46	7	5	6	44	10	16	16	7	40	2	4	4	4
4	38	11	18	21	15	31	8	6	6	48	11	17	16	8	26	3	4	4	4
4	42	12	19	21	16	16	8	7	6	52	12	18	17	9	12	4	5	5	5
4	46	13	20	22	17	1	9	8	6	57	13	19	18	9	57	5	6	6	6
4	51	14	21	23	17	46	10	9	7	1	14	20	19	10	41	6	7	7	7
4	55	15	22	24	18	32	11	10	7	5	15	21	20	11	28	7	8	8	8
4	59	16	23	24	19	17	12	11	7	9	16	22	21	12	14	8	9	9	9
5	3	17	24	25	20	4	13	12	7	14	17	23	22	12	59	8	10	10	10
5	8	18	25	26	20	49	14	13	7	18	18	24	22	13	45	9	11	11	11
5	12	19	25	27	21	35	14	14	7	22	19	25	23	14	30	10	12	12	12
5	16	20	26	28	22	20	15	14	7	27	20	26	24	15	14	11	13	13	13
5	21	21	27	28	23	6	16	15	7	31	21	27	25	15	59	12	14	14	14
5	25	22	28	29	23	51	17	16	7	35	22	28	25	16	44	13	15	15	15
5	29	23	29	30	24	37	18	17	7	39	23	28	26	17	29	13	16	16	16
5	34	24	30	1	25	23	19	18	7	44	24	29	27	18	14	14	17	17	17
5	38	25	1	2	26	9	20	19	7	48	25	30	28	18	58	15	18	18	18
5	43	26	2	3	26	55	20	20	7	52	26	1	28	19	42	16	19	19	19
5	47	27	3	4	27	41	21	21	7	56	27	2	29	20	26	17	20	20	20
5	51	28	4	5	28	27	22	22	8	0	28	3	30	21	10	18	20	20	20
5	56	29	5	5	29	13	23	23	8	5	29	4	1	21	54	18	21	21	21
6	0	30	6	6	30	0	24	24	8	9	30	5	2	22	38	19	22	22	22



A TABLE of HOUSES for the Latitude of 51 Degrees 32 Minutes, according to the Doctrine of *Ptolemy*, serving the City of *London*, &c.

☉ in ♈										☉ in ♉											
Time from noon.		10	11	12	Ascen			1	2	3	Time from noon.		10	11	12	Ascen			1	2	3
		♈	♈	♈	♈	♈	♈	♈	♈	♈			♈	♈	♈	♈	♈	♈	♈	♈	♈
h	m	gr	gr	gr	gr	gr	m	gr	gr		h	m	gr	gr	gr	gr	m	gr	gr		
8	9	0	5	2	22	38	19	22			10	8	0	2	26	13	30	13	20		
8	13	1	5	3	23	22	20	23			10	12	1	3	26	14	9	14	21		
8	17	2	6	3	24	5	21	24			10	16	2	4	27	14	49	15	22		
8	21	3	7	4	24	48	22	25			10	20	3	5	28	15	29	16	23		
8	25	4	8	5	25	32	23	26			10	24	4	5	29	16	9	16	24		
8	29	5	9	6	26	15	23	27			10	27	5	6	29	16	48	17	25		
8	34	6	10	7	26	58	24	28			10	31	6	7	♈	17	28	18	26		
8	38	7	11	8	27	41	25	29			10	35	7	8	1	18	6	19	27		
8	42	8	12	8	28	23	26	♈			10	39	8	9	2	18	48	20	28		
8	46	9	13	9	29	6	27	1			10	42	9	10	2	19	27	20	29		
8	50	10	14	10	29	48	27	2			10	46	10	11	3	20	6	21	♈		
8	54	11	15	11	om	30	28	3			10	50	11	11	4	20	48	22	1		
8	58	12	16	12	1	13	29	4			10	54	12	12	4	21	26	23	2		
9	2	13	17	12	1	55	♈	4			10	57	13	13	5	22	5	24	3		
9	6	14	18	13	2	36	1	5			11	1	14	14	6	22	45	24	4		
9	10	15	18	14	3	18	2	6			11	5	15	15	7	23	24	25	5		
9	14	16	19	15	4	0	2	7			11	9	16	16	7	24	4	26	6		
9	18	17	20	16	4	41	3	8			11	12	17	17	8	24	43	27	7		
9	22	18	21	16	5	22	4	9			11	16	18	17	9	25	23	28	8		
9	26	19	22	17	6	4	5	10			11	20	19	18	10	26	3	29	10		
9	30	20	23	18	6	45	5	11			11	23	20	19	10	26	42	♈	11		
9	34	21	24	19	7	26	6	12			11	27	21	20	11	27	22	0	12		
9	38	22	25	19	8	6	7	13			11	31	22	21	12	28	1	1	13		
9	41	23	26	20	8	47	8	14			11	34	23	22	13	28	40	2	14		
9	45	24	27	21	9	28	9	15			11	38	24	23	13	29	20	3	15		
9	49	25	28	22	10	8	9	16			11	42	25	23	14	29	59	4	16		
9	53	26	28	23	10	48	10	17			11	45	26	24	15	♈	39	5	17		
9	57	27	29	23	11	29	11	18			11	49	27	25	15	1	19	5	18		
10	1	28	♈	24	12	9	12	19			11	53	28	26	16	1	59	6	19		
10	5	29	1	25	12	50	12	20			11	56	29	26	17	2	39	7	20		
10	8	30	2	26	13	30	13	20			12	0	30	27	17	3	19	8	21		

# TABLE OF HOUSES.

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A TABLE of HOUSES for the Latitude of 51 Degrees 32 Minutes, according to the Doctrine of *Ptolemy*, serving the City of *London*, &c.

☉ in ♈										☉ in ♍									
Time	from			Ascen.						Time	from			Ascen.					
noon.	10	11	12	1	2	3				noon.	10	11	12	1	2	3			
h	m	gr	gr	gr	m	gr	gr	gr	gr	h	m	gr	gr	gr	m	gr	gr	gr	gr
12	0	0	27	17	3	19	8	21		13	52	0	22	10	25	15	10	27	
12	4	1	28	18	3	59	9	22		13	55	1	23	11	26	5	11	28	
12	7	2	29	19	4	39	10	24		13	59	2	24	11	26	56	12	30	
12	11	3	30	20	5	20	11	25		14	3	3	25	12	27	47	14	1	
12	15	4	1	20	6	2	11	26		14	7	4	25	13	28	3	15	2	
12	18	5	1	21	6	43	12	27		14	11	5	26	14	29	31	16	4	
12	22	6	2	22	7	24	13	28		14	15	6	27	15	0	24	18	5	
12	26	7	3	23	8	5	14	29		14	19	7	28	15	1	18	19	6	
12	29	8	4	23	8	46	15	30		14	22	8	29	16	2	13	20	8	
12	33	9	5	24	9	28	16	2		14	26	9	3	17	3	10	22	9	
12	37	10	6	25	10	10	17	3		14	30	10	1	18	4	6	23	10	
12	40	11	6	25	10	52	19	4		14	34	11	2	19	5	3	25	11	
12	44	12	7	26	11	35	20	5		14	38	12	2	20	6	1	26	13	
12	48	13	8	27	12	17	21	6		14	42	13	3	20	7	0	28	14	
12	51	14	9	28	12	59	22	7		14	46	14	4	21	8	0	29	15	
12	55	15	10	28	13	42	23	9		14	50	15	5	22	9	2	30	17	
12	59	16	11	29	14	26	24	10		14	54	16	6	23	10	6	2	18	
13	3	17	12	30	15	10	25	11		14	58	17	7	24	11	9	4	19	
13	6	18	12	1	15	54	26	12		15	2	18	8	25	12	14	6	21	
13	10	19	13	1	16	39	27	13		15	6	19	9	26	13	21	8	22	
13	14	20	14	2	17	23	28	15		15	10	20	9	27	14	29	9	23	
13	18	21	15	3	18	8	29	16		15	14	21	10	27	15	37	11	24	
13	21	22	16	4	18	54	30	17		15	18	22	11	28	16	46	13	26	
13	25	23	16	4	19	39	1	18		15	22	23	12	29	17	58	14	27	
13	29	24	17	5	20	26	2	20		15	26	24	13	30	19	11	16	28	
13	33	25	18	6	21	14	4	21		15	31	25	14	1	20	27	17	29	
13	36	26	19	7	22	1	5	22		15	35	26	15	2	21	43	19	8	
13	40	27	20	7	22	49	6	23		15	39	27	16	3	23	3	21	2	
13	44	28	21	8	23	37	7	24		15	43	28	17	4	24	24	22	3	
13	48	29	21	9	24	26	8	25		15	47	29	18	5	25	47	24	5	
13	52	30	22	10	25	15	10	27		15	51	30	18	6	27	10	26	6	



OF THE  
**ECLIPSES**  
 OF THE  
**SUN AND MOON.**

**I**N this year there will be four Eclipses, two of the *Sun* and two of the *Moon*; they happen in the following order:

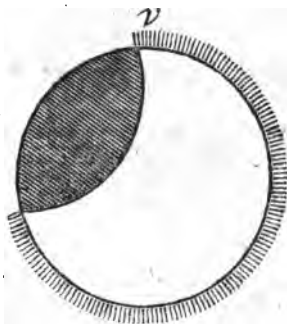
The first is a solar defect, on *Thursday* the 4th day of *March*, in the morning, about 5 o'clock, therefore invisible here, and, by reason of the *Moon's* South Latitude, to all the Northern parts of the Globe; but in those parts more Southerly this will be a great Eclipse, even so, that in the unknown parts of the Globe, lying under 58 deg. of South Latitude and about 114 deg. East Longitude from *London*, the inhabitants, if any, will be surprised with a total Eclipse of the *Sun*, at their mid-day, or 12 at noon.

The second will be a partial Eclipse of the *Moon*, on *Friday* the 19th day of *March*, at 6 mins. past 11 o'clock in the forenoon, therefore invisible to us.—At the middle of this Eclipse the *Moon* is vertical just upon the Equator, in about 167 degrees of Longitude West from *London*; hence it appears that this Eclipse will be visible in *New Zealand*, *New Holland*, *New South Wales*, at *Otaheite* and all the *Society Islands*, the *Friendly Islands*, the *New Hebrides*, the *Molucca Islands*, those of *Sunda*, *Sumatra*, *Borneo*, in *Eastern Tartary*, and the Eastern parts of *Russia*. The defect, where visible, is 5 deg. 16 min. upon the North side of the *Moon*.

The third is an Eclipse of the *Sun*, at *Sun* rise, on *Saturday* the 28th day of *August*, and visible here from *Sun* rise to the end, if the air proves favourable.—That morning

morning at *London* the *Sun* rises at 5 minutes past 5 o'clock. The middle of the Eclipse, or time of the greatest obscuration, is in 14 minutes after the *Sun* has risen, and will then appear near 5 digits eclipsed; and the Eclipse will end at 13 minutes past 6 o'clock, according to app. Time.

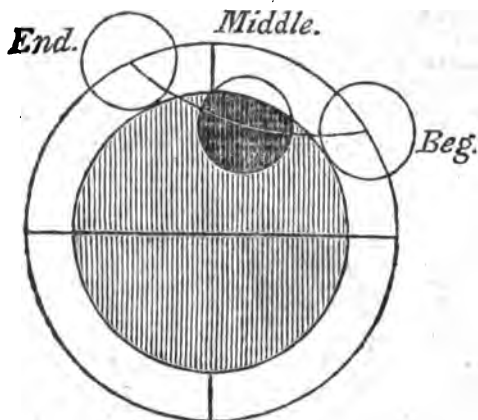
### A Type of the Sun's Eclipse.



*Note.* The above delineation shews the appearance of the *Sun* at the time of the greatest obscuration at *London*; but without much error will serve the whole Kingdom. V. the *Sun*'s uppermost point or vertex.

The fourth, and last of these Eclipses, will be a small one of the *Moon*, and visible with us if the air proves clear; it happens on *Saturday* night, the 11th of *September*. At the middle of this Eclipse the *Moon* will be directly over their heads on the Eastern boundary of *Congo*, in *Africa*, in about 4 degrees of South Latitude, and 20 deg. East Longitude from *London*, therefore this Eclipse will be visible in *Africa*, in the Island of *Madagascar*, and great part of the *Indian Sea*, the Western parts of *Asia*, and all *Europe*; but the *Moon* will rise eclipsed in *South America*; though with us, in this Kingdom, it may be expected nearly to correspond with the following Type and Times.

## A TYPE of the Moon's Eclipse.



Sept. 11, at night.	London	York	Edinb.	
	h. m.	h. m.	h. m.	
Eclipse begins	9 14	9 9	9 1	app. time.
Middle - - -	10 39	10 34	10 26	
Eclipse ends -	12 5	12 0	11 52	

Digits eclipsed  $9^{\circ} 12' 0''$ .

Beside these Eclipses of the *Sun* and *Moon*, there happens on *Tuesday*, the 9th of *November*, a Transit of the Planet *Mercury* over the *Sun's* disk, and visible here from *Sun* rise to the end, if the air proves clear, for the *Sun* will rise with *Mercury* upon his face, and will appear in the form of a round black spot through a Telescope; as *Mercury* is so very small it will not be very easily seen through smoked glass.—*Mercury* enters upon the *Sun's* disk, with respect to the meridian of *London*, at 28 min. past 6; but the *Sun* will not rise till 25 min. past 7.—The middle of the Transit is at 14 minutes past 9; and *Mercury* will leave the *Sun's* disk at 12 at noon, app. time.—I also find by my calculations, that the *Moon* will Eclipse the Planet *Jupiter* the 21st of *January*, at 9 at night; and also on the 17th of *February*, at 9 at night; and again the 13th of

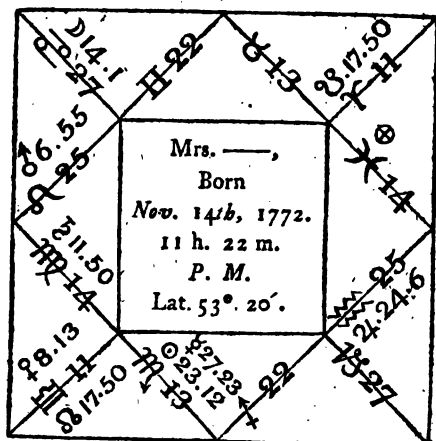
of *April*, at half an hour past 2 o'clock in the morning.—  
These may be seen by the naked eye, if the air proves clear.

## GENETHLIACAL ASTROLOGY.

THE following Nativity was sent me by my worthy friend, Mr. *John Worsdale*, of *Donington Northorpe*, near *Boston, Lincolnshire*:—He has published two Tracts on Genethliacal Astrology, and also intends to publish an entire new work on the Science of Astrology; and he wishes to inform the Public that he does nothing in Astrology but for amusement only, on which account those that write to him in future need not expect any answer to their letters. The art of foretelling future events and contingencies undoubtedly had its origin in the most early ages; and the desire of prying into the secrets of Futurity, appears to be a natural instinct in the human soul. This science having been studied by men of the first eminence in the scientific and literary world, both in this and other countries, down to the present age, (*viz. Thales, Miletus, Ptolemy, Tycho Brahe, Bishop Butler, Sir Isaac Newton, the Poet Dryden*, and many others;) the truth of which having been varified by innumerable facts, and the fulfilment of many recent events, have sufficiently established its credit beyond the cavils of the incredulous, and vindicated its well informed professors from the charge of imposture.—It may therefore be asserted without hesitation, that from a Nativity, correctly taken, the most ample satisfaction may be obtained; as a proof of which I here give the following geniture to the Public:—The given time of birth was *November 14, 1772, 11 h. 30 m. P. M.* but it is evident the native was born 8 min. sooner, because she was afflicted with a slow melancholy fever, at the age of 19 years and 7 months, which was occasioned by the effect of the ascendant to the body of  $\frac{1}{2}$ , he being in mundane parallel with  $\delta$ . As to her marriage, it took place on the M. C. ad  $\Delta$  of  $\frac{1}{2}$ , followed by  $\Delta$  of  $\frac{1}{2}$ ; not that

that every native is married on those directions, but because ♀ is strong, and beheld by ♃, ♂, and ♀, and not afflicted by ♃. Her husband is signified by ♀, and partly by ♄; the last more immediately concerns his intellects.

Here follows the FIGURE at Birth.



The Latitude of the Planets.

♃ 1° 41' N.		♄ 1° 59' N.		♄ 0° 47' S.
♄ 1 8 S.		♀ 1 41 N.		♂ 5 9 S.

The Declination of the Planets.

♃ 8° 42' N.		♄ 18° 38' S.		♂ 17° 39' N.
♄ 14 37 S.		♀ 1 36 S.		
♄ 20 33 N.		♄ 20 25 S.		

That she will rise in the world is evident from the harmony which prevails among the significations, the ⊕ is in ♃ in Δ to the luminaries, and disposed of by ♄; ♄, Lord of the 2d house, also beholds the ⊕; her riches will chiefly come, I judge, by legacies and gifts of women, because the ♃ is strong, and ♄ is located in the 2d in \* to ♄, who disposes of the Lord of the 2d. I am pretty certain this Lady will have loss, through the position

position of ♀ in 8 to ☉, and the ☉'s ☐ to ♀ who disposes of the ☉; but the Δ aspect of the luminaries to each other and the ☉, together with ♀ strong in the second will certainly keep down the evil influence of ♀.— The time when the native will prosper most is from the present till the 42d year of her age, at which time the ☽ will fall upon the ☐ of the ☉, and ☿ the 8 of ♀, and Zodiacal parallel of ♀ and body of ♀, at which period her pleasures on this earthly Planet will be nearly at an end; but I do not mean that this native will die at that time, because the ascendant is Hyleg, and death must be considered from that point only, which I shall not meddle with in this place, because this Almanack will most undoubtedly fall into her hands. In this Nativity there is as fine a train of directions as ever I saw, from her 20th year, until the ☉ to the ☐ of ♀ in Mundo begins to shew its effects; so now take a few of the principal directions together; in order as they stand:

☉ ad ☐ of ♀ in the Zodiac	18° 54'	Ys.	Ms.	
Ascendant ad ☿ of ♀	20 40	19	7	<i>a fever.</i>
☽ ad par. of ♀ in Mundo C.D.	21 51	20	9	
☽ ad ☿ of ♀ in Mundo	22 41	21	7	
☉ ad * ♀ in Mundo	22 53	21	9	<i>courted to marry. bad a sum of money left her by an aunt.</i>
Ascendant ad * ☽	24 52	22	6	
☽ ad * ♀ in Zodiac	27 13			
☽ ad parallel ♀ in Zodiac	27 40			
Mid-heaven ad Δ ♀	28 16	26	6	<i>married.</i>
M. C. ad Semi. ☐ ☿	28 28			
M. C. ad Δ of ♀	31 47	28	8	
☉ ad * ♀ in Zodiac	32 9			
☽ ad Δ ☉ in Mundo	35 40			
☉ ad * ♀ in Mundo	35 41			
☉ ad ☐ ♀ in Mundo	37 4			
☽ ad ☐ ☉ in Zodiac	45 44	42	3	<i>illness and fever.</i>

*Sum,*

*Some additional remarks on the Child's Nativity inserted in my last year's Almanack.*

I now make, says my friend, some additional remarks on the infant mentioned in your last, wherein the ☉ is giver of life, and on the Zodiacal parallel of ♈ in his infantile years, preceded by the \* of ♄, which may cause a feverish complaint, &c. but the time when I judge he will depart this life will be at the age of 32 years, or very nigh that time; the directions then operating will be the ☉ to the 8 of the ♄ malefic, followed by the ☐ of ♄ in the Zodiac, succeeded by a violent fixed star, which directions are (I conceive) sufficient to kill in a Nativity attended with the violence of this.

### *Astrological Observations for the Year 1802.*

#### THE WINTER QUARTER,

*Or, The Sun's Transit through ♋, ♏, and ♒.*

**T**HIS Quarter begins on *Tuesday*, the 22d of *December*, at 2 min. past 6 in the morning, 1801; at which time the first degree of ♈ is on the Mid. Cœli, and 4 deg. of ♈ ascend in the East.—At this ingress there is a ☌ of ♈, ♏ and ♒ in the ascendant or first house, in the celestial sign ♈, besides the approaching conjunction of the two grand superiors, *Saturn* and *Jupiter* in *Virgo*; in this figure they are in the 9th house, and within one degree only of their partial conjunction, which will not exactly take place until the 15th day of *July* following, and then at 7 in the morning. The influence of this great ☌ has been in force ever since the beginning of last *September*, when their platique aspect took place, and will be much more so from the beginning of this quarter.—This conjunction of the superiors, ♄ and ♃, falls in the ascendant of *France*, and particularly that of *Paris*, its capital: It falls in a ☐ to the horoscope of *Spain*, and in 8 of the ascendants of *Portugal* and *Egypt*; and I am sorry to add, it is in a ☐ aspect of the ascendant of the city of *London*.—These countries and places will feel its baneful effects and powerful influences, and I firmly believe every other

other country too, that is connected or at war with *France*. It will stir up seditions, tumults, and discontents in the minds of men; it shews miserable complaints among the poor in general, both for want of money and want of trade; it signifies wars, feuds, and intestine divisions; it also denotes consumptions, tedious and continued agues, and diseases of that kind; and perhaps much snow and wet.

### THE SPRING QUARTER,

Or, *The Sun's Transit through ♈, ♉, and ♊.*

**T**HIS Quarter begins on *Sunday*, the 21st of *March*, at 35 min. past 7 in the morning, at which time 20 degrees of ♉ ascend in the East and 22 degrees of ♈ are on the M. C. The ☽ ab Δ ☿ et ad \* ♈.—Here seems now an appearance of Treaties offered, and frequent Messengers sent from one Court to another, and a talk of Negotiations for Peace; I wish it success, but I am doubtful, for if we consider the last ingress, which was violent, and on examination of this I do not find it much better, for here is an ☿ of ☿ and ♈, and an ☿ of ♈ and ♉, and ♈ still afflicting ♈, we cannot pronounce any thing but broils and contentions (as has now been the case) between the different Powers of *Europe*, especially those contending in arms.—*Mars* still shakes his bloody flag, therefore you may expect to hear of military actions both by sea and land. It appears that *Russia*, &c. may be the least afflicted by these configurations, as the ☿ of ♈ and ♈ fall in a trine aspect to the ascendant of *Russia*, which is friendly. The *Turks* seem as if they were to suffer. I hope *Great Britain* will remain internally tranquil.

### THE SUMMER QUARTER,

Or, *The Sun's Transit through ♊, ♋, and ♌.*

**T**HIS Quarter begins on *Thursday*, the 22d of *June*, at 27 min. past 5 in the morning, when 21 degrees of ♋ culminate, and the 20th degree of ♊ ascends in the East: Here ♋ and ♋ are conjoined in the ascendant, and ♋ and



$\Upsilon$  and  $\Upsilon$  the same in the 3d house, and  $\delta$  in  $\varphi$  the ascendant of *England*; the  $\Upsilon$  in  $\Delta$  a of  $\varphi$  ad  $\Delta$   $\varphi$ .—The configurations of the Planets at this ingress, taken together, are nearly similar and in a piece with the preceding quarters, excepting the planet  $\delta$ , whose situation in the figure denotes resolution and success to attend our national affairs.—In this quarter falls the  $\delta$  of  $\Upsilon$  and  $\Upsilon$ , and what is remarkable, the Eclipse of the Sun following it falls in the very sign and degree thereof, which seems to denote, among other things, the sickness or death of some great man, with a scarcity of the fruits of the earth; it forebodes many commotions and troubles, with devastations of every kind, and will render the effects of the  $\delta$  of the two superior planets more powerful, for I judge no small or trivial matters (let them be what they may) to succeed this important conjunction of *Saturn* and *Jupiter*.

#### THE AUTUMNAL QUARTER,

Or, *The Sun's Transit through  $\varphi$ ,  $\eta$ , and  $\zeta$ .*

**T**HIS Quarter begins on *Thursday*, the 23d of *September*, at 8 min. past 7 at night, when 9 deg. of  $\varphi$  ascend, and 16 deg. of  $\eta$  are on the M. C. The  $\Upsilon$  ab  $\square$   $\varphi$  ad  $\ast$   $\zeta$ .—The two grand Superiors, *Saturn* and *Jupiter* are in the 6th house, within 7 degrees of each other, and *Mars* in  $\Pi$ , *London's* ascendant, in a square aspect of them, which shews the affairs of this quarter to be various and of high concernment both to us as well as to *France*, *Spain*, and *Holland*, and the whole of *Europe*.—Many reports again fly abroad, as if some Treaty for a general Peace were in agitation, and people gladly embrace that intelligence, but time will discover all things, for I still fear it will be but like a vapour or tale that is told.—I hope the Honourable City of *London* prospers in her trade and traffick—I fear also mortalities among men and cattle—I expect this will chiefly fall upon *France*.—May God preserve our King and Country.

F I N I S.

**OLD POOR ROBIN.**  
**AN ALMANACK,**

COMPOSED

(According to the modern Mode of Composition)

ON

A Variety of Subjects, both Ancient and Modern;

And, for the Reader's farther Entertainment,

Part in Prose,

Part Contemplative;

Part in Verse;

Part Serious,

Part Narrative,

Part Comick;

FOR THE

Entertainment and Improvement of the human Mind,  
and adapted to the meanest Capacity.

BEING

A new improved Edition of a very old  
EPHEMERIS, for the Year of our Lord, 1802.

Being the One Hundred and Fortieth Edition, the  
Sixth after Bissextile, or Leap-Year,  
And the Fiftieth Year of the New Style in Great Britain.

Written by POOR ROBIN, Knight of the *Burnt-Island*,  
and Well-wisher to the MATHEMATICKS.

Let all ranks of Readers now buy,  
Which as full is of wit as an egg is of yolk;  
A perpetual feast, that by trios and dozes  
Wife maxims pours forth, to instruct wiser notions,  
That prating at random is no sign of wit;  
And that fools oft thought wise ask, when silent they sit;  
But as this seldom happens, it therefore is said,  
That a still pair of chops make a wise logger-head.

LONDON:

Printed for the Company of STATIONERS,

By G. WOODFALL, No. 22, PATERNOSTER-ROW,

And sold by GEORGE GREENHILL, Treasurer to the COMPANY,  
at their HALL, in LUDGATE-STREET.

Price Seventeen-Pence, stitched,

# Chronological Account of Remarkable Occurrences.

THE Creation of the World	Years since	5905
The General Deluge, or <i>Noah's Flood</i>	-	4152
The Birth of <i>Abraham</i>	-	3806
The Foundation of <i>Solomon's Temple</i>	-	2810
The Babylonish Captivity	-	2507
The Birth of our Blessed Lord and Saviour <i>Jesus Christ</i>	-	1801
His Passion and glorious Resurrection	-	1767
The beginning of the Ten Persecutions, by <i>Nero</i>	-	1729
The Tower of <i>LONDON</i> built	-	1230
<i>Cambridge</i> made an University	-	1156
<i>Oxford</i> made an University	-	930
<i>William Duke of Normandy</i> conquered <i>England</i>	-	735
The Invention of Guns	-	423
The Art of Printing first invented at <i>Haerlem</i>	-	371
A great Plague in <i>London</i> , whereof died 30,578	-	199
The horrid Gunpowder Treason	-	196
The Holy Bible new translated	-	194
Plague in <i>London</i> , of which, and other Diseases, died 54,266	-	176
<i>New England</i> planted	-	171
King <i>Charles I.</i> beheaded	-	153
King <i>Charles II.</i> restored	-	141
Another Plague in <i>London</i> , whereof, &c. died nearly 100,000	-	136
13,800 Houses burnt in <i>London</i>	-	135
A great Comet appeared in <i>December</i> and <i>January</i>	-	129
The great 13 Weeks Frost	-	117
King <i>William III.</i> and Queen <i>Mary</i> crowned <i>April 11</i>	-	112
<i>England</i> and <i>Scotland</i> united	-	96
<i>St. Paul's</i> in <i>London</i> finished	-	94
Queen <i>Anne</i> died <i>August 1</i> ; and King <i>George I.</i> began	-	87
<i>Presb. Rebellion</i>	-	86
King <i>George I.</i> died <i>June 21</i> ; and King <i>George II.</i> procl. 16 <i>June</i>	-	74
A splendid Comet, seen from <i>Dec. 23</i> to <i>Feb. 20</i>	-	58
A Rebellion, when the Rebels came so far as <i>Derby</i>	-	56
The Date and Calendar altered	-	49
The Militia Act passed	-	43
King <i>George II.</i> died <i>Oct. 25</i> ; and King <i>George III.</i> began	-	41
King <i>George III.</i> and Queen <i>Charlotte</i> crowned <i>Sept. 22</i>	-	40
Peace with <i>France</i> and <i>Spain</i>	-	37
The Swedes forced to resign their Liberties to the King	-	29
War commenced against <i>North America</i>	-	26
The Americans declare themselves Independent States	-	25
The French signed the first Treaty with the American States	-	23
War against <i>France</i> commenced	-	23
War began against <i>Spain</i>	-	22
War against <i>Holland</i> commenced	-	21
A general Peace	-	18
<i>France</i> became a Republic	-	20

## PREFACE.

I Have this year only room for a short one, owing to my desire to entertain my friends, the constant purchasers of my annual labours in quill-driving, a profession so honourable that it thrives under persecution, like the bottle in the smoke hung up in the chimney to cure the ague, so faithful and unfailling of its design, that it may be compared to the cordial balm of Gilead for efficacy, prepared by that famed artist Dr. S--l--mon Simpleton, Trumpeter of his own skill and charity, who lest an ungrateful world should not do him justice, takes care to praise himself in the newspapers, and make the fame his own by buying and paying for it as honestly as any quack-doctor in christendom. All these advertisements, as well as *nostrums*, pay duty, and consequently benefit his Majesty's revenue; and as the nation wants money to carry on this dangerous war, this is, no doubt, one of the instances of public charity that he has to boast of, and I will give him the credit to say, that I believe his aim in this is quite as much for the public good, as pure and disinterested as mine in making people pay seventeen-pence for the quill-driving which I formerly sold for sixpence. And this good I do as well as he, because I cannot help it. But as to corrupting the minds and manners, by intilling thameless notions, which without him they never would have heard of, picking the pockets, and poisoning the constitutions of his Majesty's liege subjects, I declare off, or make no such pretensions; but leave the well-earned fame thereof, to all the haberdashers of small-ware, inventors and venders of drops, cordials, pills, and boluses in the kingdom. But now, gentle readers, for one of my natural and beautiful transitions, from the subject of quack-doctors, to that of boys playing at leap-frog, and from thence to friendship, a thing at this time of day equally out of the way. When the lad who had not been at church was asked where the text was, he said, the chapter and verse he had forgot, but remembered the words, which were---Let every one take care of themselves.---And this boy's text is become many mens oracle. But the making self interest always the moving principle, will scarcely be apt to produce any thing but what is sordid and base. And yet the consideration of it, it must be owned, even extends to friendship; the desire of making friends, springs from the desire of our own emolument. This is not only true at the present day, but is also evident from the examples we find of old, concerning the famed sages of antiquity, or among the old Greeks and Romans, whose notions concerning friendship, were what we should now certainly term romantic, as may undeniably be gathered from Tully's discourse concerning it. The story, therefore, of *Titus and Giffops* as recorded in the *Decameron* of Boccace, as happening in Tully's age, or soon after him, acquires a degree of probability, rarely to be met with in Boccace, but seeming to be traditionary, even from the augustan age in which it is placed. I have given the narration nearly as I found it, the only material alteration being that of prose to verse, and mean it for the amusement of my readers on one of these long winter's nights.

POOR ROBIN.

*A correct TABLE of the MOON'S SOUTHING, calculated  
one who has any thing to do with*

M	Jan.	Feb.	March.	April.	May.	June.
D	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.
1	9 M. 4	10 M. 44	9 M. 29	11 M. 1	11 M. 25	Aft. 50
2	10. 1	11. 48	10. 28	11. 50	Aft. 17	1. 46
3	11. 6	Aft. 46	11. 24	Aft. 40	1. 11	2. 38
4	Aft. 13	1. 39	Aft. 16	1. 31	2. 7	3. 28
5	1. 17	2. 39	1. 7	2. 24	3. 3	4. 14
6	2. 16	3. 17	1. 56	3. 19	3. 57	4. 57
7	3. 10	4. 5	2. 46	4. 14	4. 49	5. 38
8	3. 59	4. 53	3. 37	5. 9	5. 37	6. 17
9	4. 46	5. 43	4. 29	6. 2	6. 22	6. 57
10	5. 32	6. 34	5. 23	6. 52	7. 4	7. 38
11	6. 17	7. 27	6. 17	7. 39	7. 45	8. 21
12	7. 4	8. 19	7. 10	8. 22	8. 25	9. 8
13	7. 53	9. 11	8. 1	9. 4	9. 5	10. 0
14	8. 44	10. 1	8. 49	9. 45	9. 48	10. 58
15	9. 36	10. 48	9. 35	10. 25	10. 33	Morn.
16	10. 28	11. 32	10. 18	11. 7	11. 23	0
17	11. 19	Morn.	10. 59	11. 51	Morn.	1. 3
18	Morn.	15	11. 40	Mo. n.	17	2. 6
19	8	55	Morn.	38	1. 16	3. 5
20	54	1. 35	21	1. 29	2. 18	3. 59
21	1. 37	2. 15	1. 2	2. 24	3. 20	4. 50
22	2. 18	2. 57	1. 46	3. 23	4. 20	5. 38
23	2. 58	3. 42	2. 34	4. 24	5. 16	6. 25
24	3. 37	4. 30	3. 26	5. 25	6. 8	7. 11
25	4. 17	5. 23	4. 22	6. 23	6. 57	8. 0
26	5. 0	6. 21	5. 21	7. 18	7. 44	8. 50
27	5. 46	7. 23	6. 23	8. 10	8. 31	9. 43
28	6. 36	8. 26	7. 24	8. 59	9. 19	10. 37
29	7. 33		8. 22	9. 47	10. 8	11. 32
30	8. 34		9. 18	10. 36	11. 0	Aft. 26
31	9. 40		10. 10		11. 55	

for the YEAR of our LORD 1803, highly necessary for every  
 her, either by Land or Water.

M	July.	Aug.	Sept.	Octob.	Nov.	Dec.
D	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.
1	1 A. 16	2 A. 5	2 A. 50	3 A. 20	5 A. 12	5 A. 42
2	2 4	2 44	3 34	4 15	6 7	6 31
3	2 48	3 23	4 22	5 13	7 0	7 18
4	3 29	4 3	5 15	6 13	7 51	8 5
5	4 8	4 46	6 12	7 12	8 40	8 55
6	4 47	5 32	7 13	8 9	9 29	9 47
7	5 27	6 23	8 14	9 3	10 19	10 42
8	6 8	7 19	9 15	9 56	11 11	11 39
9	6 33	8 19	10 13	10 47	Morn.	Morn.
10	7 42	9 22	11 9	11 38	6	37
11	8 36	10 26	Morn.	Morn.	1 4	1 34
12	9 35	11 26	1	30	2 2	2 27
13	10 39	Morn.	53	1 25	3 1	3 16
14	11 43	24	1 45	2 21	3 56	4 1
15	Morn.	1 18	2 37	3 19	4 47	4 44
16	45	2 9	3 32	4 17	5 34	5 23
17	1 43	2 59	4 27	5 13	6 18	6 2
18	2 38	3 49	5 24	6 6	6 59	6 41
19	3 28	4 40	6 20	6 55	7 38	7 21
20	4 17	5 33	7 13	7 40	8 18	8 3
21	5 4	6 28	8 4	8 23	8 57	8 50
22	5 33	7 23	8 52	9 3	9 38	9 41
23	6 43	8 17	9 36	9 42	10 23	10 37
24	7 35	9 9	10 18	10 22	11 12	11 36
25	8 29	9 59	10 58	11 3	Aft. 5	Aft. 37
26	9 23	10 45	11 37	11 46	1 2	1 36
27	10 17	11 29	Aft. 17	Aft. 32	2 1	2 33
28	11 9	Af. 10	59	1 22	3 1	3 26
29	11 57	49	1 42	2 16	3 58	4 16
30	Aft. 43	1 28	2 29	3 14	4 52	5 3
31	1 25	2 8		4 12		5 50

## Use of the foregoing TABLE.

*The Use of the foregoing TABLE of the Moon's Southing, to find the time of High-Water, and the Hour of the Night.*

### I. To find the time of High-Water in most Parts of ENGLAND, &c. &c.

Take the time of the Moon's Southing for the day proposed, and to that add the hours and minutes which stand against the place required in the following Table of Sea-Coasts, and the sum will be the time of High-Water at the place required on that day.

#### A Table of the Sea Coasts.

H, M.

Portsmouth, Queenborough, Southampton,	0	00
Rockingham, Winchelsea, Flushing,	0	45
Downs, Gravesend, Ramkin, Guernsey,	1	30
Denbigh, Bell-Isle, Holy-Isle, Downs-Road,	2	15
London, Timmouth, Whisby, Harlepool,	3	00
Scarborough, Berwick, Flushing, Staples,	3	45
Frambrough, Humber, Bridlington-Bay,	4	30
Flymouth, Ramsey, Newcastle, Severn,	5	15
Lynn, Fosdyke, Hull, Weymouth, Dartmouth, Cross-Keys,	6	00
Boston, Start-Point, Roulness, Bristol Key,	6	45
Bridgewater, Milford-Haven, Lizard, Wintertown,	7	30
Farmouth, Isle of Wight, the Needles,	8	15
Isle of Man, Orkney, Peel, South-Foreland,	9	10
Dover, Harwich, Orfordness, Bullein,	10	10
Rye, Solihay, Margate-Road,	11	15

### II. To find the Hour of the Night by the Shadow of the Moon on a Dial.

1. When the shadow falls precisely on the hour 12, then the time of the Moon's southing, found in the preceding Table, is the exact time of night. But in other cases,

2. If the shadow wants of 12, see how much it wants of it; Which time subtracted from that of the Moon's southing, leaves the time of night. *Note*, You must add 12 hours to the Moon's southing, if need be.

3. If the shadow has past 12, add the time that it has past it to the time of the Moon's southing; the sum will be the time of night required; abating 12 hours from that sum, if need be.

per year l.	TABLE to calculate WAGES.									
	per Month.			per Week.				per Day.		
	l.	s.	d.	l.	s.	d.	f.	s.	d.	f.
1	0	1	8	0	0	4	2	0	0	3
2	0	3	4	0	0	0	1	0	1	1
3	0	5	0	0	1	1	3	0	2	0
4	0	6	8	0	1	6	2	0	2	3
5	0	8	4	0	1	11	0	0	3	1
6	0	10	0	0	2	3	2	0	4	0
7	0	11	8	0	2	8	1	0	4	2
8	0	13	4	0	3	0	3	0	5	1
9	0	15	0	0	3	5	2	0	6	0
10	0	16	8	0	3	10	0	0	6	2
11	0	18	4	0	4	3	3	0	7	1
12	1	0	0	0	4	7	1	0	8	0
13	1	1	8	0	4	11	3	0	8	2
14	1	3	4	0	5	4	1	0	9	1
15	1	5	0	0	5	9	0	0	9	3
16	1	6	8	0	6	1	3	0	10	2
17	1	8	4	0	6	6	1	0	11	1
18	1	10	0	0	6	10	3	0	11	3
19	1	11	8	0	7	3	2	1	0	2
20	1	13	4	0	7	8	0	1	1	1
30	2	10	0	0	11	6	0	1	7	3
40	3	6	8	0	15	4	0	2	2	1
50	4	3	4	0	19	2	1	2	9	0
60	5	0	0	1	3	0	1	3	3	2
70	5	16	8	1	6	10	1	3	10	0
80	6	13	4	1	10	8	1	4	4	2
90	7	10	0	1	14	6	1	4	11	2
100	8	6	8	1	18	4	2	5	5	3

The months above are calculated at twelve in the year. If the yearly wages be guineas instead of pounds, for every guinea add one penny for each month, or one farthing to each week.



JANUARY hath xxxi Days.				M D	Declin. South.
New Moon	4	} Day at {	8 ho. 8 m. Morn.	1	23 3
First Quarter	11		4 Morn.	6	28 33
Full Moon	18		9 After.	11	31 58
Last Quarter	27		57 Morn.	16	31 1
☉ enters 20th day, at 4 ho. 27 m. After.				21	20 0
				26	18 49
1	20	F	Circumcision	It often has with truth been said, She that has buy one servant maid, Is better waited on, than she Who misleads is to two or three. For they have something else to mind, They business of their own can find:	
2	21	S		Old Christmas Day. So think, not they will wait on you, Indeed they've something else to do. To all things novel and perplex, To stupid be, and strive to vex:	
3	22	C	2 Sund. aft. Christ	Or raising up a dust and pother, In running after one another. They never fail at striving, who, The most shall waste, the least shall do.	
4	23	M		And then in gadding up and down, All one in country or is town; To hear and see their business is, To mark, and mark and do amiss,	
5	24	Tu		To gather up the tales and lies, To tell them, and the truth disguise.	
6	25	W	Epiphany.	Prisca. As mischief is their aim and bent, Of St. Hil. 1 return.	
7	26	Th		On this they ever are intent, It is their study and delight,	
8	27	F	Lucian		
9	28	S			
10	29	C	1 Sun. aft. Epiph		
11	30	M	Plow Monday		
12	31	Tu	Days inc. 26 min.		
13	Jan.	W	Hil. Cam. T. beg.		
14	2	Th	Oxford Term beg.		
15	3	F			
16	4	S			
17	5	C	2 Sun. aft. Epiph		
18	6	M	Q. Cha. b. day kep		
19	7	Tu			
20	8	W	Fabian. In 8 days		
21	9	Th	Agnes Lasses Fast.		
22	10	F	Vincent		
23	11	S	Hilary Term beg.		
24	12	C	3 Sun. aft. Epiph		
25	13	M	Conver. of St. Pau		
26	14	Tu	Days inc. 1 hour		
27	15	W	Pr. Aug. Fred. b.	In 15 Days of St. Hil. 2 return.	
28	16	Th		To praise it by day and night	
29	17	F		Scandal to carry in and out, The work is of this rabble rout;	
30	18	S	K. Charles I. mart	And what they ever are about.	
31	19	C	4 Sun. aft. Epiph		

Observations in JANUARY.										M D	Clocks before Sun.	
As kide no more than time will fly, I've told when you expect it may. If for all this you take no heed, It overtake you will indeed.												
M	☉	☽	☿	♂	♀						1	3' 47"
Drises & sets rif. & le. A											6	6 6
											11	8 13
											16	10 4
											21	11 38
											2	12 53
1	VHL	11	5	m	13	27	Big Ben.	Venus will be a morning star				
2	4	56	6	36	28	Blue Hens	all this month and the next: will					
3	3	57	7	no	54	29	To all this	come to her superior conjunction				
4	8	58	8	sets	29	30	colum up	with the Sun on the 17th day of				
5	2	58	8	a	15	1	with fools,	March, at half past eleven at night;				
6	1	59	6	v	31	2	As it is sub-	after which she will be an even-				
7	VH	19	8	24	30	3	ject to no	ing star, will come to her greatest				
8	59	1	9	30	4	4	rules,	elongation, or apparent distance				
9	58	2	11	15	5	5	Can be no	from the Sun, on the 20th day of				
10	57	3	morn	8	6	6	mighty task.	October, and continue an even-				
11	56	4	1	35	7	7	Who shew a	ing star during the remainder of				
12	55	5	1	53	8	8	naked	the year.				
13	54	6	3	1	9	9	Brazen Face	Jupiter will be a morning star				
14	53	8	4	33	10	10	Are far less	all the month of January, and				
15	51	9	5	43	11	11	numerous	till the 20th day of February,				
16	50	10	6	45	12	12	than the race	when he souths about midnight,				
17	49	11	7	32	13	13	Of those that	and then becomes an evening star				
18	47	13	Drises	8	14	14	wears a mask.	till he comes in conjunction with				
19	46	14	4	41	15	15	So now for	the Sun, on the 9th day of Sep-				
20	45	15	5	52	16	16	Be as it is	tember; when he becomes a				
21	43	17	7	5	17	17	laid,	morning star till the year ends.				
22	42	18	8	15	18	18	He on his	Mercury will be a morning star				
23	40	20	9	26	19	19	shoulders	till the 27th day of January, then				
24	39	21	10	38	20	20	wore a head,	an evening one till the 12th day				
25	37	23	11	52	21	21	So, by that	of March, then a morning one				
26	36	24	morn	22	22	22	head was	till the 19th day of May; then				
27	34	26	1	10	23	23	bigger,	an evening one till the 19th day				
28	33	27	2	33	24	24	And if he'd	of July, then a morning star till				
29	31	29	3	58	25	25	had no head	the 1st of September, then an				
30	29	31	5	18	26	26	at all	evening one till the 9th day of				
31	28	32	6	25	27	27	it neither	November, and lastly a morning				
							had be n	star till the end of the year.				
							great nor	His greatest elongation, or ap-				
							small,	parent distance from the Sun,				
							He'd cut the	will, in the evening, be on the				
							puccer	17th of October, which will be a				
							figure.	good opportunity to take a peep				
								at him.				

FEBRUARY hath xxviii. Days.					M D	Declin. South.
New Moon	2	} Day at	6 ho. 34 m. After.	1	27° 13'	
First Quarter	9		5 1 After.	16	25 44	
Full Moon	17		5 8 After.	11	14 9	
Last Quarter	25		1 29 After.	16	12 28	
☉ enters ♈ 19th day, at 7 ho. 14 m. Morn.					21	10 42
					26	8 52
N S	O S	W D	Sundays and Holidays.	Choice Observations; Maxims and Tales.		
1	20	M				
2	21	Tu	Purificat. B.V. Ma.	or Candlemas Day.		
3	22	W	Bp. Blas. on mort.	of Purification, & return.		
4	23	Th		Lucretia complain'd of late,		
5	24	F	Agatha	And to her husband design'd to state		
6	25	S	Old St. Paul.	Her case, that he might strive to mend		
7	26	C	5 Sun. aft. Epiph.	it,		
8	27	M		And told him how she did intend it.		
9	28	Tu	In 8 d. Purif. 4 ret.	As she but two maid-servants had;		
10	29	W		And both, as often happens, bad.		
11	30	Th	Days inc. 2 hours.	And he would send them to the field,		
12	31	F	Hilary Term ends	That so some profit they might yield,		
13	Feb.	S		In harvest time, to make the hay :		
14	2	C	Septuagesima Sun.	That so these might be less delay,		
15	3	M		When weather favourably fine,		
16	4	Tu	Days 10 hours long	Valentine. Old Candlemas Day		
17	5	W		And all things prospering combine :		
18	6	Th		She said at home she was so tir'd,		
19	7	F		That she another maid requir'd;		
20	8	S		To wait on her; nor brave the sun,		
21	9	C	Sexagesima Sund.	But on her errands only run.		
22	10	M		As he assented, one she hir'd,		
23	11	Tu		To do whatever she desir'd;		
24	12	W	St. Matthas. Pr.	But found as she'd of maids one more,		
25	13	Th	Camb. Term div. n.	She'd one more plague than heretofore		
26	14	F				
27	15	S	Days inc. 3 hours.	Adolph. Frederic born.		
28	16	C	Quinquagesima S.	Who when upon an errand sent,		
				The way forbidden always went;		
				And idle giddy, wild, unsteady,		
				or Shrove Sunday.		

## Observations in FEBRUARY.

				M D	Clocks before Sun.
The ancient Romans now began their spring, Because the birds to couple build and sing, Began their annual labours, and the pie, And croaking raven both proclaim it nigh. The yellow crocus and the sweet primrose, With the white snowdrop in each garden blows.				1 6 11 16 21 26	13 <sup>h</sup> 57 <sup>m</sup> 14 28 14 38 14 29 14 1 13 18
M D	O rises and sets	D rises and sets	D A	Sorry faints & sadnesses	Prose, take it for better for worse as a man does his wife.
1	<b>VII</b>	<b>IV</b>	7 m 12	28 And as to	Mars will be a morning star
2	24	36	D sets	N Mrs. Brazen	still he comes in opposition to the
3	23	37	5 a 41	1 Face	Sun on Christmas day next.
4	21	39	7 15	2 Adorn'd	Saturn will be apparently very
5	19	41	8 42	3 with ri-	near Jupiter during the month of
6	17	43	10 7	4 bands and	January: coming to the South
7	15	45	11 31	5 with lace	on the 8th day, at 23 minute
8	14	46	morn	6 Flaunting	past 3 in the morning, with 10'
9	12	48	54	7 with shoul-	32' north declination. Jupiter
10	10	50	2 13	8 ders bare,	the same morning, southing a
11	8	52	3 29	9 Shewing her	16 minutes past 3 with 10 <sup>o</sup> 30
12	6	54	4 35	10 matchless	north declination.
13	4	56	5 26	11 Impudence.	In thus giving you this astr
14	3	57	6 7	12 To captivate	nomical account of the planets,
15	1	59	6 33	13 those want-	have been following my ow
16	<b>VI</b>	<b>V</b>	6 53	14 ing sense,	proper business, and labourin
17	57	3	D rises	15 And making	in my vocation, that of an Al
18	55	5	5 a 59	16 others stare.	manack-Maker. A name, whic
19	53	7	7 14	17 She shews	were you to know me, and ca
20	51	9	8 25	18 she is a kind	me by, how must it lift me u
21	49	11	9 40	19 Of gear	with pride, and make my hear
22	47	13	10 57	20 there's	leap with as much joy, as it reall
23	45	15	morn	21 plenty every	does every year at the latter en
24	43	17	18	22 where,	of November, when I hear th
25	41	19	1 40	23 More so	reviving sound of Poor Robin
26	39	21	3 24	24 than loaves	Almanack. Almanacks new r
27	38	22	4 12	25 and fishes,	verberating through the stree
28	36	24	5 5	26 That devi-	as vociferated from the melod
					ous mouth of lame George, an
					bulating upon two crutches, c
					rather twinging himself alor
					with his basket upon his brea
					and his sweet quid of balm
					mundungus to warm his moul
					and keep up his spirits.

## MARCH hath xxxi Days.

New Moon 4  
First Quarter 11  
Full Moon 19  
Last Quarter 26

Day { 4 ho. 55 m. Morn.  
6 24 Morn.  
11 15 Morn.  
12 7 After.

M Declin.  
D South.

1 70 46  
6 6 49  
11 3 52  
16 3 54  
21 North  
26 2 5

© enters yr 21st day, at 7 ho. 35 m. Morn.

1	17	Mo David.	Who still a lye had always ready.
2	18	Tu Shrove Tu.	Her study and delight to cheat was,
3	19	W Ash Wednesday.	Her work not worth one half her
4	20	Th [Lent begins.	meat was,
5	21	F	So to her cost Lucretia found,
6	22	S	The more in maids she did abound,
7	23	C 1 Sund. in Lent	The more she needed, and that she
8	24	M	Perpetua.
9	25	Tu	Was never from disquiet free.
10	26	W Ember Week.	Nor was it an uncommon case,
11	27	Th	To cheated be before her face;
12	28	F Gregory M.	And what is worse, she had to pay,
13	Mar. S		For being cheated every day.
14	2	C 2 Sund. in Lent	So quite fir'd out, the hapless elf,
15	3	M	Was forc'd to learn to work herself.
16	4	Tu	As to the moral of this fable,
17	5	W St. Patrick	It all behoves, as they are able,
18	6	Th Ed. K. W. Saxons	To help and do the best they can,
19	7	F	And neither trust to maid nor man.
20	8	S	At least, you must well understand
21	9	C 3 Sund. in Lent	All business, that you undertake in
22	10	M	hand.
23	11	Tu	Benedict
24	12	W	Or if you do not, be assur'd,
25	13	Th Annun. of B. V.	A certain loss must be endur'd,
26	14	F	Boothis, repining tis to sit,
27	15	S	or Lady Day
28	16	C 4 Sund. in Lent or	So strive to do what's right and fit.
29	17	M	You truckle down to business must,
30	18	Tu Days 12 ho. 52 m.	Mid-Lent Sunday,
31	19	W	And be yourself your chiefest trust,
			Or otherwise you'll rarely find
			Another who'll your interest mind.

Observations in MARCH.				M D	Clocks before Sun.
The medicinal pilewort now is seen,				1	18' 45"
The bud with yellow the young tender green:				6	11 40
The modest violet hangs her tender head,				11	10 25
Her matchless fragrance all around is spread;				16	9 0
And singing now on each new budded bush,				21	7 30
Is heard the blackbird, and melodious thrush.				26	5 58
1 VI	VI	5 m 44	27	By raising	Alas! George! I have known
2 32	28	6 8	28	wanton	better days, as well as thou. I
3 30	30	6 26	29	wishes.	once could afford to put up my
4 28	32	7 2	30	All those	horse at the principal inn in a
5 26	34	7 2	31	who dress	county town, say more; I had
6 24	36	9 4	1	beyond.	then a horse of my own to put
7 22	38	10 32	2	their rank,	up there. And going to order
8 20	40	11 58	3	If ruin'd,	him out, I in the yard met with
9 18	42	morn	4	have them-	one Jos Sauce-Box, who, staring
10 16	44	1 18	5	selves to	at me, cries to the hostler, bring
11 14	46	2 29	6	shank,	me the Almanack, I want to see
12 12	48	3 28	7	For what	what day of the month it is. The
13 10	50	4 11	8	can they ex-	hostler gave him a damn, and he
14 8	52	4 41	9	pect?	took to his heels. This I took
15 6	54	5 4	10	Who, to be	for an insult, and I suppose the
16 4	56	5 21	11	fine, all ha-	hostler took it too. And from
17 2	58	5 34	12	zards run	thence I drew a conclusion, much,
18 V	VI	5 46	13	And cannot	no doubt, to the comfort of my
19 58	2	D rises	14	pay when	feelings, and the credit of my
20 56	4	7 2 38	15	they have	calling, perceiving the vast esteem
21 54	6	8 51	16	done,	in which it was held by Jos.
22 52	8	10 11	17	Who will	With what spirit and cheerful-
23 50	10	11 35	18	such gear	ness must a man write, who
24 48	12	morn	19	respect?	knows he is to expect nothing
25 46	14	58	20	Miss Prue	but to be despised for his pains.
26 44	16	2 8	21	of Birming-	I have, however, this comfort
27 42	18	3 8	22	ham,	now I am too poor to keep a
28 40	20	3 50	23	whose mo-	horse, that my calling is no dis-
29 38	22	4 17	24	ther	grace to me. When I am called
30 36	24	4 37	25	Cares tripe	Poor Robin, I hold it no misfor-
31 34	26	4 53	26	and trulli-	mer, because, thanks be to Joss
			27	bubs, whose	and others such as he, I know
				brother	myself not to be rich. He must
				By grinding	be a wretch indeed that thinks
				earns his	Poor Robin an object of envy.
				bread	So that were Jos now alive
				And sheesch	which I believe he is not, he
				week day's	would certainly be cured of his
				sent to fetch	madness and preposterousness.

APRIL, hath xxx Days.				M D	Declin. North.
New Moon	1	Day at	3 ho. 15 m. After.	1	4° 23'
First Quarter	10		9 25 Morn.	6	6 17
Full Moon	18		2 35 Morn.	11	8 9
Last Quarter	25		5 45 Morn.	16	9 58
O enters 8 20th day, at 8 ho. 15 m. After.				21	11 42
				26	13 22
1	20	Th	All Fools Day.	And those who slight these whole- some rules,	
2	21	F		Are the worst sort of April fools.	
3	22	8	Rich. Bp. Chichef.		
4	23	O	5 Sund. in Lent.	St. Ambrose.	
5	24	M		Continue the whole month, I say,	
6	25	Tu	Old Lady-Day.	Nor will their folly end with May.	
7	26	W		But month will after month arise,	
8	27	Th		For, when alas! will fools be wise?	
9	28	F	Cam. Term ends	Would you be wise, I beg and pray,	
10	29	S	Oxford Term ends	You would begin this very day.	
11	30	C	Palm Sunday.	Delay's a very dangerous thing,	
12	31	M		For Time is ever on the wing,	
13	1	Tu		To think or say his wings are lead,	
14	2	W		Will stand you but in little stead.	
15	3	Th	Maundy Th.	So sure and steady is his pace,	
16	4	F	Good Friday.	He in the end wins every race,	
17	5	S		And nothing can be done without him,	
18	6	C	Easter Day.	What folly then it is to flout him.	
19	7	M	East. Mond.	But as I told you last year mind,	
20	8	Tu	Easter Tuesday.	Remember he is bald behind.	
21	9	W		And tho' his forelock's painted long,	
22	10	Th		'Tis slippery nor over strong,	
23	11	F	St. George	Nor great nor little can him stay,	
24	12	S		We know he brook will no delay.	
25	13	C	1 Sun. aft. Easter.	Low-Sund.	St. Mark Evang.
26	14	M		[Prs. Mary born.	
27	15	Tu		'Tis necessary well to mind him,	
28	16	W	Oxford and Camb.	Since, if once lost, you'll never find him.	
29	17	Th	[Terms begin.	So use him as a friend most true,	
30	18	F	Days 14 ho. 46 m.	That ever will attend on you,	
			[long.	Without whom, you can nothing do.	

Observations in APRIL.				M D	Clocks before Sun.
And now 'tis April, and the welcome lambs.				1	4 <sup>7</sup> 7 <sup>0</sup>
Crop the young herbage, and frisk round their dams.				6	2 37
How seasonable are the falling showers,				11	1 11
To make new vegetation shew her powers:				16	Aft. 7
The fruit-trees now in beauteous bloom are seen,				21	1 17
And flowers diversify the meadows green.				26	2 16
1 V	VII	5 m	8 28	All the	It is true that merit is always accompanied with envy; according to the poet,
2 30	30	D sets	N	cow's bel-	
3 28	32	8 a	8	lies in her	Envy will merit as its shade pursue,
4 26	34	9	35	reach,	
5 24	36	11	0	2 With kit	But like a shadow proves the substance true,
6 22	38	morn		3 upon her	
7 20	40		19	head.	For envy'd wit, like <i>Sol</i> eclips'd, makes known
8 18	42	1	24	4 But needs	
9 17	43	2	15	5 must on the	The opposing body's grossness, not its own.
10 15	45	2	52	6 Sunday go,	
11 13	47	3	17	And at the	Yet it will be found that but little of it will attend upon merit in ragged poverty, or stick to the coat that is patched with two colours like mine. Indeed my fingers are so benumbed that they will not hold gold, it slips through them, and will not stick to them. Such a sad thing it is to be both poor and old. But sad as it is, it is not so bad as to be ever discontented, unthankful, and repining, ever having much and wanting more. The over desire of gold is called <i>fames auri</i> , and a famine it is, and like the seven thin ears of corn, in Pharaoh's dream, blatted with the east wind; such are riches kept for the owners thereof to their hurt. Men desire gold but cannot eat it; they thrill for it, but cannot drink it. It spoils the enjoyment for which men wish
12 11	49	3	36	7 tabernacle	
13 9	51	3	50	8 show,	In every
14 7	53	4	1	9 Adorn'd	
15 5	55	4	12	10 with silks	In every
16 3	57	4	22	and lace	
17 1	59	4	33	11 Her dump-	In every
18 IV	VII	D rises	F	ling shape	
19 57	3	9 a	25	and brawny	In every
20 56	4	10	50	arms	
21 54	6	morn	19	14 Beclasp'd	In every
22 52	8		9	with brace-	
23 50	10	1	12	lets, what	In every
24 48	12	1	57	alarms!	
25 46	14	2	28	17 Are rais'd	In every
26 45	15	2	50	18 by her sweet	
27 43	17	3	7	face!	In every
28 41	19	3	21	19 The tripe	
29 39	21	3	33	20 she carries	In every
30 37	23	3	46	up and	
				down	In every
				23 Cannot	
				24 more sweet-	In every
				ly scent the	
				town	In every
				26 Than does	
				27 the rich per-	In every
				fame.	
				28 In every	In every



MAY hath xxxi Days.					M D	Declin. North.
New Moon	8	} Day at	1 ho. 43 m. Morn.	1	14 <sup>0</sup> 56'	
First Quarter	9		6 57 After.	6	16 25	
Full Moon	17		2 37 After.	11	17 46	
Last Quarter	24		10 56 Morn.	16	19 0	
New Moon	31		0 43 After.	21	20 6	
☉ enters ♋ 21st day at 8 ho. 47 m. After.					26	21 3
1	19	S	St. Phil. & St. Ja.	How beauteous all things now appear,		
2	20	C	2 Sund. aft. Easter.	In this glad season of the year!		
3	21	M	Invent. of the Crofs	And all is merry, blithe and gay,		
4	22	Tu	[From E. 15d. 1 ret	As all is holiday and May.		
5	23	W	Easter Term beg.	The primroses and violets bloom,		
6	24	Th	St. John Evan. ante	The golden cowslips breathe perfume,		
7	25	F		Port Latin. Means to drink port		
8	26	S		[wine at St. John's Col. Camb.		
9	27	C	3 Sund. aft. Easter.	The modest bluebel hangs its head,		
10	28	M	From Easter in 3	O'er meadows mary-buds are spread,		
11	29	Tu	[weeks, 2 ret.	Auricols all edg'd with green,		
12	30	W		Pride of the garden too are seen,		
13	May 1	Th	Old May-day.	And on its edges all around		
14	2	F		Sweet vary'd multicups abound.		
15	3	S		Exceeding royal majesty,		
16	4	C	4 Sun. aft. Easter.	In grandeur too the tulip see!		
17	5	M	From Easter in 1	Like glory now themselves display,		
18	6	Tu	[month, 3 ret.	Princess of Wales born, 1766.		
19	7	W	Q. Char. birth-day	Finer than any royal band		
20	8	Th	[Dunstan.	That e'er adorn'd an eastern land.		
21	9	F		And then the music of the groves,		
22	10	S	Prs. Eliz. born	The graces beauties and the loves,		
23	11	C	5 Sun. aft. Easter	In one harmonious chorus join,		
24	12	M	From Easter in 5	And glorify the power divine:		
25	13	Tu	[weeks, 4 ret.	Rogation Sunday.		
26	14	W	Aug. 1st Bp. Cant.	That gave to all these beauties birth,		
27	15	Th	Accession. Holy Th.	The grace and glory of the earth.		
28	16	F	On morrow of Asc.	Venerable Bede.		
29	17	S	K. Char. II. rest.	It surely is the best, that we		
30	18	C	Sun. aft. Ascen. D.	Should grateful, humble, thankful be,		
31	19	M	East. Term ends	In praising the Almighty hand,		
				For all the blessings of our land.		

## Observations in MAY.

				M	Clocks
				D	after Sun.
Now linnets warble, and the larks arise				1	3' 2 <sup>n</sup> .
And on strong pinions singing hail the skies.				6	3 34
And philomela at the close of day				11	3 53
Makes the woods echo with her plaintive lay;				16	3 58
Nay, when kind <i>Luna</i> sheds her silver light,				21	3 49
Her song is heard, too, at the dead of night.				26	3 26
1	IV VII	3 m 59	29	place she	to procure it, and defeats the de-
2	34	26	D sets N	sheds	sign for which they mean it. It
3	32	28	9 a 56	1	is sought for, as if it were the
4	31	29	11 14	2	sure way to happiness, and found
5	29	31	morn	3	by experience to be a state of
6	27	33	11	4	certain misery. You will say I
7	25	35	55	5	know that I rail against gold be-
8	24	36	1 24	6	cause I cannot get it.
9	22	38	1 44	7	When the fox could not get the
10	21	39	2 08	8	sweet grapes in his power,
11	19	41	2 13	9	He gave them his curse, for he
12	18	42	2 24	10	swore they were four.
13	16	44	2 34	11	Whether there be any weight in
14	14	46	2 43	12	this, perhaps, I cannot be sure;
15	13	47	2 55	13	but of this at least I am certain,
16	12	48	3 9	14	that what I have here asserted of
17	10	50	D rises F	15	riches is in perfect conformity to
18	9	51	9 a 54	16	truth. For which I may appeal
19	7	53	11 3	17	to the experience of all ages and
20	6	54	11 57	18	nations. When? or where?
21	5	55	morn	19	Was the eye satisfied with seeing
22	3	57	32	20	or the ear filled with hearing.
23	2	58	57	21	You may have your gold, and
24	1	59	1 14	22	you may see it, but how rarely
25	III VII	1 29	23	23	is found the man that has sense to
26	58	2 1	40	24	say it is enough?
27	57	3 1	53	25	It is not riches, however, that
28	56	4 2	7	26	a wise man would rail against,
29	55	5 2	21	27	but the being poor in the midst
30	54	6 2	41	28	of them, unthankful and forget-
31	53	7 1	D sets N	29	ful of the Giver of them, putting

JUNE hath xxx days.					M D	Declin. North.
First Quarter	8	} Day at {	0 ho. 48 m. After.	1	22° 0'	
Full Moon	15		11 50 After.	6	22 37	
Last Quarter	22		4 1 After.	11	23 4	
New Moon	30		0 58 Morn.	16	23 21	
☉ enters 22d day, at 5 ho. 27-m. Morn.					21	23 27
					26	23 24
1	20	Tu	Nicomede.	Now beauteous May is gone full soon,		
2	21	W		But she succeeded is by June,		
3	22	Th	Oxf. T. ends. Camb.	T. divides n.		
4	23	F	K. Geo. III. b. 1738	To bring things to maturity,		
5	24	S	D. of Cumb. bo. 1771	Boniface;		
6	25	C	Whit Sunday	Equally useful this month see.		
7	26	M	Whit Monday	The fragrant pink now rears her head,		
8	27	Tu	Whit Tuesday	Or edg'd with purple or with red.		
9	28	W	Ember Week.	And with them, if the gard'ner litt,		
10	29	Th		Is interspers'd love in a mist,		
11	30	F	St. Barnabas	The lupine yellow red or blue;		
12	31	S		And the white rocket seen is too.		
13	June 1	C	Trinity Sunday	And on the garden borders round,		
14	2	M	On mor. of H. Trin.	Before too the sweet rose is found.		
15	3	Tu	[1 ret.	This, more or less, all summer long,		
16	4	W	Oxford Term beg.	A fit theme for the poet's song.		
17	5	Th	St. Alban Cor. Chris.	Lasts, and without it may, who knows		
18	6	F	Trinity Term begins	What he could do without the rose?		
19	7	S		Affording him both white and red,		
20	8	C	1 <sup>st</sup> Sund. after Trin.	What simile could serve instead?		
21	9	M	In 8 d. of H. T. 2 ret.	Tr. of Edw. K. of West Saxons.		
22	10	Tu	Longest Day.	Should Chloë hang her drooping head		
23	11	W		She, like the rose, does so 'tis said.		
24	12	Th	Nativity of St. John	Or if in melting tears she mourn,		
25	13	F		Bapt. Midsummer-day.		
26	14	S		The rose is made to weep in turn.		
27	15	C	2 <sup>nd</sup> Sund. aft. Trin.	Nay, the mad sons of Bacchus join,		
28	16	M	In 15 d. of H. T. 3 <sup>rd</sup> r.	And roses round their heads entwine,		
29	17	Tu	St. Peter, Apostle.	They make the flower an emblem		
30	18	W		sad,		
				Of wretched mortals run stark mad		
				That o'er themselves no guard have had.		

## Observations in JUNE.

Observations in JUNE.				M D	Clocks after Sun.	
And now the grass mature begins to wear				1	2' 42"	
A different hue, and ripe to cut appear.				6	1 54	
Of whetting scythes is heard the grating sound;				11	0 58	
Then the hay-makers too are spread around,				16	Before	
And if the weather's fine both sweet the hay;				21	4 7.	
And wish but little trouble made it may.				26	2 11	
1	III	VIII	9 a 59	1	As com-	what is practised every day, in
2	51	9	10 48	2	monly folks	every age and place throughout
3	51	9	11 22	3	say.	the world.
4	50	10	11 45	4	Who can	But whither am I running? I
5	49	11	morn	5	describe the	am not in such haste to be rich.
6	48	12		6	numerous	He that maketh haste to be rich
7	48	13		7	breed;	shall not be innocent, said the
8	47	13		8	On honey-	wife man. Yet I am not like
9	46	14		9	suckle soap	King James the First, who as-
10	45	15		10	that feed?	sected to be thought the Solomon
11	45	15		11	I mean the	of the age he lived in: and even
12	44	16		12	Barber trib	that proved to a demonstration,
13	44	16		13	That to Old	with mathematical certainty, that
14	44	16		14	Scaramouch	he was no wiser than he ought to
15	44	16		15	must go,	be. This sapient monarch, we
16	43	17		16	For telling	are told, was afraid of crossing
17				17	sibs or lying	London-Bridge, lest it should fall
18	No real	10		18	fo,	with him into the Thames. For,
19	night	11		19	And all	says he, the bridge must fall
20	in	11		20	without a	sometime, no body can deny it:
21	Britain	11		21	bribe.	and who knows but it may be
22		11		22	But lest	when I am upon it? Well said
23				23	there be a	James, care and caution are two
24				24	falling out	excellent things, and he that
25	43	17		25	Between	makes use of them without need
26	43	17		26	two trades	may well be excused, if he takes
27	44	16		27	to raise a	it into his head always to apply
28	44	16		28	rout	them when needful, or at least in
29	44	16		29	As that	matters of the greatest moment.
30	45	15		30	would be a	And this he did when he found
					pity.	the nation at war at the com-
					To make	mencement of his reign, but took
					them on	care to make peace as soon as he
					each other	could, and keep it all his days
					from	after. And though this might be
					Twinequal	because he loved his own ease
					in each	and quiet, none can deny, but
					country	he at the same time saved the
					town	lives, and filled the pockets of

# JULY hath xxxi Days.

First Quarter	8	} Day {	4 ho. 57 m. Morn.	1	23° 10'
Full Moon	15		7 28 Morn.	6	22 46
Last Quarter	21		10 22 After.	11	22 12
New Moon	29		3 4 After.	16	21 29

☉ enters ♉ 23d day, at 4 ho. 17 m. After.

M	Declin.
D	North.
1	23° 10'
6	22 46
11	22 12
16	21 29
21	20 36
26	19 35

1	19	Th		How useful June! and so July
2	20	F	Visit. of B.V. Mary	Is seasonably hot and dry.
3	21	S	Dog Days begin.	Provided that light show'rs be found,
4	22	C	3 Sund. aft. Trin.	At intervals to wet the ground,
5	23	M	In 3 w. of H. Tr. 4 r.	Bring to maturity the fruits,
6	24	Tu	Camb. Commence.	And make to vegetate the roots.
7	25	W	Trin. Term ends.	Old Midsum. Day.
8	26	Th		And kindly ripen well the corn,
9	27	F	Camb. Term ends	That <i>Cornucopia's</i> gilded horn,
10	28	S		May teem with plenty, and so we
11	29	C	4 Sund. aft. Trin.	From apprehension may be free
12	30	M	Oxford A&	Of famine, or the dearth of bread,
13	July	Tu		But joyful gladness overspread,
14	2	W		The hills and vallies of our land.
15	3	Th	Swithin	That all may see and understand,
16	4	F		To whom we all these blessings owe,
17	5	S	Oxford Term ends	That thankfulness may overflow;
18	6	C	5 Sund. aft. Trin.	And every hand and every heart,
19	7	M		With joy perform their proper part.
20	8	Tu	Margaret	May hymn his praise from pole to
21	9	W		pole,
22	10	Th	Magdalen	As all the vary'd seasons roll.
23	11	F		And rich and poor together join,
24	12	S		To own his goodness all divine.
25	13	C	6 Sund. aft. Trin.	Equally all indebted are;
26	14	M	Anne.	Objects of his peculiar care,
27	15	Tu		The subjects of his kingdom, all
28	16	W		The nations that o'erspread this ball.
29	17	Th		To take the gift, and bless the giver,
30	18	F		The duty is, of all for ever.
31	19	S		St. James.

How base! to take the gifts and have  
them,  
Forgetful of the hand that gave them!

Observations in JULY.				M D	Clocks before Sun.
And now, my lasses dear, I pray be handy				1	3 <sup>h</sup> 13 <sup>m</sup>
To bring me, what I love, good cherry brandy;				6	4 9
That barley wine in Egypt first was made:				11	4 55
They call'd it Cerevisia 'tis said,				16	5 31
'Tis a mistake, tho' it was made from corn,				21	5 54
It cherry-brandiy was, I will be sworn.				26	6 4
1 <sup>III</sup> VIII	9 a	43	1	And bro-	his subjects, who thus rolled in
2 46	14	10 3	2	thers in the	ease and plenty. And how much
3 47	13	10 18	3	city.	truer was his glory, than that of
4 47	13	10 29	4	The	his predecessors, who engaged in
5 48	12	10 39	5	Tribes of	the mad project of striving to
6 49	11	10 48	6	Taylora	conquer France. And so much
7 49	11	10 58	7	from those	for King James. I am not very
8 50	10	11 9	8	who	apt to dwell too long upon the
9 51	9	11 24	9	With shears	same subject; too much of one
10 52	8	11 43	10	and pres-	thing is good for nothing. This
11 53	7	morn	11	board daily	my grandmother used to say was
12 54	6	10	12	go	an old saying and a true one.
13 55	5	52	13	At their	Great minds and small means
14 56	4	1 53	14	good dames	have ruin'd many. Was a copy
15 57	3	D rises	15	desire	which my writing master used to
16 58	2	9 a 14	16	Cross-legg'd	set me at school. This is not
17 59	1	9 32	17	to sit upon	only true of those who carried
18 IV VII	9	46	18	the table	on the useless French wars above
19 2	58	9 59	19	And do	hinted at, but applies to almost
20 3	57	10 10	20	whatever	all occurrences civil as well as
21 4	56	10 25	21	they are	military. The maxim was doubt-
22 5	55	10 41	22	able	less designed to warn little folks
23 7	53	11 4	23	As clothes	of the danger of striving beyond
24 8	52	11 34	24	all must re-	their strength. <i>Omnia non omnes</i>
25 10	50	morn	25	quire	<i>possumus</i> is in sense and drift
26 11	49	15	26	And tho'	much the same. It is at best but
27 12	48	1 11	27	fat bacon	ridiculous to undertake what any
28 14	46	2 17	28	they ap-	one knows to be out of his power
29 15	45	D sets	29	prove	to perform. Therefore laugh at
30 17	43	8 a 22	30	'Tis cabbage	me. I have undertaken to fill
31 18	42	8 34	31	which the	this column with nonsense, and
				most they	am now found writing dull rea-
				love,	son and philosophy. I am dis-
				'Tis the dear	mounted, having, as I told you,
				vegetable	lost my horse, and it being ne-
				That with	cessary for me, as you know, to
				the stomach	make verses, which cannot be
				agrees best	done without mounting, I have
				They cut,	it in contemplation of borrow
					my neighbour's ass, and have him

## August hath xxxi Days.

August hath xxxi Days.				M D	Declin. North.
First Quarter	6	Day at	6 ho. 55 m. After.	1	18° 10'
Full Moon	18		2 48' After.	6	16 52
Last Quarter	20		7 14 Morn.	11	15 27
New Moon	28		7 0 Morn.	16	13 55
☉ enters ♋ 23d day, at 10 ho. 39 m. After.				21	12 18
				26	10 36

1	20	Cy	Sund. aft. Trin.	Lammas Day.
2	21	M		And now it busy August is,
3	22	Tu		Let none be idle or remiss,
4	23	W		But cheerfully with hand and heart,
5	24	Th		Of useful labour take a part,
6	25	F	Transfiguration	To dry the hay, to cut the corn,
7	26	S	Name of Jesus.	And house the grain when it is shorn.
8	27	C8	Sund. aft. Trin.	Princess. Amelia born, 1783.
9	28	M		For surely he is worse than crazy,
10	29	Tu	St. Lawrence	That will be on St. Laurence lazy.
11	30	W	St. Brunswick bo.	Dog Days end.
12	31	Th	Pr. Wales b 1762	As women's tongues are seldom still,
13	Aug.	F	Old Lammas Day	Now let them yelp loud as they will,
14	2	S		Tattle and rattle round and scold it,
15	3	C9	Sund. aft. Trin.	Assumption.
16	4	M	Duke of York bo.	The field is wide enough to hold it.
17	5	Tu		Provided that they don't forget
18	6	W		To do the work on which they're set.
19	7	Th		Unreasonable 'tis the tongue
20	8	F		Should both do nothing and do wrong.
21	9	S	Du. of Clarence b.	She that in work will take no part
22	10	C10	Sund. aft. Trin.	In harvest, winter shall make smart.
23	11	M		Let lads and lasses all make minding
24	12	Tu	St. Bartholomew	Their business, and not honeyfinding:
25	13	W		Nor idly rob the busy bee,
26	14	Th		Of the fruit of her industry.
27	15	F		But rather imitate her care,
28	16	S	St. Augustine, Bp.	Who has laid up all she could spare
29	17	C11	Sund. aft. Trin.	of Hippo in Africa.
30	18	M		J. Bap. beh.
31	19	Tu		In summer, that in winter she
				May from the fear of want be free.

## Observations in August.

					M	Clocks
					D	before Sun.
It is a liquor which both young and old,					1	5' 57"
If us'd with moderation, I'll be bold					6	5 34
To say, that now the weather's dry and hot,					11	4' 56
Cold water hurt them may, but this will not.					16	4 4
So, lasses, not cold water from the spring,					21	3
But brandy of black-cherries hither bring.					26	1 42
<b>IV</b>	<b>VII</b>	8 a	43	3	christened <i>Pegasus</i> at the Ana-	
2 22	38	8	56	4	baptist Meeting-House. And,	
3 23	37	9	5	5	mounted thereon, no doubt, but	
4 25	35	9	15	6	I shall write fine Hymns for the	
5 26	34	9	28	7	edification of that congregation.	
6 28	32	9	43	8	When Martext and Makefitt	
7 30	30	10	7	9	twang them through their noses,	
8 31	29	10	41	10	and Mother Shipton sighs for	
9 33	27	11	31	11	symphony. Ha, little lads! here	
10 35	25	morn		12	is work for you, sweet work at	
11 37	23		42	13	the tabernacle; Robin mounted	
12 38	22	2	13	14	upon a new baptized Als, and	
13 40	20	D rise		15	giving out hymns for Bessy Bun-	
14 42	18	7 a	52	16	ter to sigh, whine, cant, and more	
15 44	16	8	6	17	over. While Bill Beeby's bray-	
16 45	15	8	18	18	ing colt makes Bingham Town	
17 46	13	8	32	19	Street echo, and run dancing	
18 48	11	8	50	20	with his mallet upon his back,	
19 51	9	9	10	21	without stopping till he comes	
20 52	7	9	39	22	through all the lanes, and safe	
21 54	6	10	17	23	arrives with Bill upon him in	
22 56	4	11	8	24	Ratcliff upon Trent silent Meet-	
23 58	2	morn		25	ing-House. Where he begun to	
24 V	VI		11	26	bray again, enough to fright all	
25 2	58	1	23	27	the fishes in the Trent, if they	
26 4	56	2	37	28	could hear, down into the Hum-	
27 6	54	3	51	29	ber, and from thence into the	
28 8	52	D sets		30	sea. As it was, the chaste im-	
29 9	51	7 a	8	31	maculate Miss Barret, then hold-	
30 11	49	7	18	2	ing forth in the pulpit, cries out,	
31 13	47	7	29	3	avaunt, Satan, avaunt. And the	
					babe leapt in her womb for fright	
					and not for joy. And made the	
					new-fangled deacon of the Not-	
					tingham tabernacle in Jack Nut-	
					ter's Lane tremble, for fear that	
					which was spoken, in the ear, in	
					closets, should be proclaimed up-	



SEPTEMBER hath xxx Days.				M D	☉ Declin. North.
First Quarter	5	} Day {	6 ho. 41 m. Morn.	1	80 28'
Full Moon	11		10 46 After.	6	6 38
Last Quarter	18		7 36 After.	11	4 45
New Moon	26		11 56 Night.	16	2 50
☉ enters ♎ 23d day, at 7 ho. 8 m. After.				21	0 54
				26	Si 3
1	20	W	Giles	<p>In the beginning of September, 'Tis time to pluck the hops remember. Which, if the season's kind, not fail To better keep Poor Robin's ale. Keep! did I say, ah! who would think it: Yes, keep it till he please to drink it, As, if they're good, they have the power, Of keeping it from being four. And giving him the belly-ache, Of that, he special care will take, By often filling of the cup, And carefully to drink it up, For fear it should be spoil'd and die, What pity this would be, say I, To have the sweet and precious malt Be lost, by my neglect and fault, Who could not on myself prevail, Thro' modesty to drink my ale. After the trouble and expence Of hops and brewing. Want of sense This might to all the world proclaim, And injure my immortal name: Who never justly have been blam'd, For doing this, but rather fam'd For doing what's just the contrary. Yet why mayn't I now change and vary? Be never drunk, but always be, A pattern of sobriety. These wonders who will live to see?</p>	
2	21	Th	Lond. burnt, 1666.		
3	22	F	[O. S.		
4	23	S			
5	24	C	2 Sund. aft. Trin.		
6	25	M			
7	26	Tu	Enurchus		
8	27	W	Nativ. B. V. Mary		
9	28	Th			
10	29	F			
11	30	S			
12	31	C	3 Sund. aft. Trin.		
13	Sept	M			
14	2	Tu	Holy Cross		
15	3	W	Ember Week		
16	4	Th			
17	5	F	Lambert		
18	6	S			
19	7	C	4 Sund. aft. Trin.		
20	8	M			
21	9	Tu	St. Matthew.		
22	10	W	K. George III. cro.		
23	11	Th	Equal day & night		
24	12	F			
25	13	S			
26	14	C	5 Sund. aft. Trin.		
27	15	M	[St. Cyprian.		
28	16	Tu			
29	17	W	St. Michael.		
30	18	Th	St. Jerome.		
				Duchess of Wirtemb. bo. 1768.	

Observations in SEPTEMBER.					M D	Clocks after Sun.	
It is a sovereign remedy, tis said,					1	0	1 <sup>h</sup>
To cure the belly-ach, preserve the head					6	1	37
From taking cold. Then how it warms the heart!					11	8	19
With vital spirits new cheers every part;					16	5	4
Rajfes to raptury the poet's song,					21	6	49
To sweetly tune his harp the whole day long.					26	8	31
IV	VI	7 a	42	4	well the	on the house tops, and the work	
2 17	43	7	55	5	vogue,	of darkness be brought to light	
3 19	41	8	13	6	Of those	What is there of which it can	
4 21	39	8	44	7	who live at	be said, this is new? When th	
5 23	37	9	25	8	court?	same thing has been done lon	
6 25	35	10	26	9	'Tis said, if	ago, in ages that were before us	
7 27	33	11	45	10	you will set	and there is no new thing unde	
8 29	31	morn		11	astride	the sun, says the wise man.	
9 31	29	1	18	12	A horse, a	have been led to remembe	
10 32	28	2	53	13	taylor he	this reflection from the follow	
11 34	26	D rises	F	14	will ride—	ing momentous consideration.	
12 36	24	6 a	32	15	Ride	thought the conceit of an ast	
13 38	22	6	46	16	whither? To	holding forth at an Anabapti	
14 40	20	7	2	17	the devil.	Meeting-House, so queer and ou	
15 42	18	7	22	18	Some say, a	of the way, that it must be new	
16 44	16	7	46	19	beggar 'tis	and therefore hugged myself	
17 46	14	8	22	20	does this,	with the idea of having found	
18 48	12	9	10	21	And that's	out something new. But I found	
19 50	10	10	10	22	the way	myself quite mistaken, on in	
20 52	8	11	20	23	they'll hard-	specting the performance of m	
21 54	6	morn		24	ly misa,	predecessor, or man of straw, th	
22 56	4		34	25	being so	writer of <i>Poor Robin</i> for the yea	
23 58	2	1	48	26	prone to	1741. Where, on the fifth lea	
24 VI	V	3	1	27	evil.	from the end, after talking o	
25 2	58	4	12	28	But whether	Lubber-land, and the land o	
26 4	56	D sets	N	29	it be one or	Green-inger, he tells his reader	
27 6	54	5 a	47	1	other,	that he was very unwilling t	
28 8	52	6	0	2	The Taylor,	set their teeth on edge, having	
29 10	50	6	13	3	Or his	says he, been so served myself	
30 12	48	6	31	4	Beggar Bro-	no longer since than last year	
					ther,	with an oration bellowed out b	
					Both equal	J. S. holder-forth at the con	
					Upstarts,	venticle in Waltham, near Mel	
					are	ton-Mowbray, in Leicestershire	
					As both ere	(whither curiosity, not devouor	
					insolent in	ed me) who, after he has	
					place,	scratched his empty head, bal	
					And trump-	lanced his hands, warbled fort	
					pets of their	his melodious nothing to hi	
						brainless flock for half an hour	

## OCTOBER hath xxxi Days.

OCTOBER hath xxxi Days.				M D	Declin. South.
First Quarter	4	} Day at }	4 ho. 36 m. After.	1	3° 0'
Full Moon	11		7 58 Morn.	6	4 57
Last Quarter	18		11 56 Morn.	11	6 51
New Moon	26		4 34 After.	16	8 44
☉ enters ♍ 24th day, at 3 ho. 8 m. Morn.				21	10 33
				26	12 18

1	19	F	Remigius	Now as the equinox is past,
2	20	S		And weather fine not long will last,
3	21	C	16 Sund. aft. Trin.	Sec, gather the autumnal fruits,
4	22	M		Lay up, for winter's store, your roots,
5	23	Tu		When other people go to meat,
6	24	W	Faith	That you may something have to eat:
7	25	Th		'Tis very sad to sit repining,
8	26	F		In woeful want, while folks are din-
9	27	S	St. Denys	ing.
10	28	C	17 Sund. aft. Trin.	Oxford and Cam. Term begins.
11	29	M	Old Stile Mich. d.	And that you likely are to do;
12	30	Tu		The case is hard, but very true,
13	1	W	Trans. K. E. l. Conf.	That idleness and poverty,
14	2	Th		In general, companions be.
15	3	F		Therefore whatever may betide,
16	4	S		Things needful carefully provide.
17	5	C	18 Sun. aft. Trin.	Strive to improve the present hour,
18	6	M	St. Luke.	Etheldreda.
19	7	Tu		For that alone is in your power,
20	8	W		What hid is in futurity,
21	9	Th		It is not for mankind to see.
22	10	F		But 'tis the part of every man,
23	11	S		To mind and do the best he can,
24	12	C	19 Sun. aft. Trin.	That's for the benefit of those,
25	13	M	K. Geo. III. accel.	Who on him all their trust repose;
26	14	Tu	K. Geo. III. procl.	Nay, if he's plac'd in any trust,
27	15	W		Crispin.
28	16	Th	St. Sim. & St. Jude	He faithfully perform it must;
29	17	F		Or otherwise be sure that he;
30	18	S		With infamy will branded be.
31	19	C	20 Sund. aft. Trin.	All perfidy is mean and base,
				Loading a wretch with foul disgrace.
				And all mankind counts him a foe;
				That's capable of acting so.

Observations in OCTOBER.					M. D.	Clocks after Sun.
Essence of Mustard some will recommend,					1	10' 10"
And Dr. Hill horse-radish found a friend;					6	11 41
And he that in his youth to please a whore,					11	13 4
Made himself rotten, him to sound restore;					16	14 14
The balm of Gilead Dr. Solomon					21	15 10
For cure averts he may depend upon.					26	15 50
I VI	V	6	a 50	5 own dis-		
2 16	44	7	32	6 grace,		
3 18	42	8	26	7 I neither		
4 20	40	9	37	8 know nor		
5 22	38	11	1	9 care.		
6 24	36	morn		10 And barbers		
7 26	34		32	11 are so near		
8 28	32	2	4	12 akia		
9 29	31	3	39	13 To separate		
10 31	29	5	2	14 them would		
11 33	27	D rises	F	15 be sin,		
12 35	25	5 a 32	16	16 Such noted		
13 37	23	5 55	17	17 lyars both,		
14 39	21	6 26	18	18 Both proud		
15 41	19	7 9	19	19 and so in-		
16 43	17	8 7	20	20 clin'd to lye,		
17 45	15	9 14	21	21 To part		
18 47	13	10 28	22	22 them then		
19 49	11	11 41	23	23 let who will		
20 51	9	morn	24	24 try,		
21 53	7	54	25	25 For I am		
22 55	5	2 6	26	26 very loath.		
23 56	4	3 16	27	27 Charles		
24 58	2	4 27	28	28 Lecvers		
25 VII	IV	5 39	29	29 lying by the		
26 2	58	D sets	N	30 hour,		
27 4	56	4 a 43	1	31 Sat on the		
28 6	54	5 7	2	32 table, but		
29 8	52	5 40	3	33 the power		
30 9	51	6 28	4	34 Of darkness		
31 11	49	7 33	5	35 nought		
				36 avail'd:		
				37 His wait-		
				38 coat, tho'		
				39 not made of		
				40 silk,		
				41 Was green,		
				42 and so was		
				43 at last, with a more inharmoni-		
				44 que braying than that of the beast		
				45 he rode on, he fell foul upon		
				46 poor Balaam; Balaam, says he,		
				47 that wizard! that conjurer! that		
				48 witch! that necromancer! that		
				49 false prophet! here his breath		
				50 unluckily failed him, or, doubt-		
				51 less, the next bellow would have		
				52 been, that <i>Andabaptist!</i> and for an		
				53 agreeable close, that <i>old woman!</i>		
				54 I must freely own, it was to me		
				55 very shocking to hear Balaam so		
				56 vilified by this As, when his		
				57 Maker had been at the expence		
				58 of a miracle to rebuke his ava-		
				59 rice from the mouth of one more		
				60 innocent. His own As, which		
				61 certainly knew him best, gave		
				62 him no reproachful language,		
				63 but expostulated with reason		
				64 argument, and truth. This lat-		
				65 ter As, at the Conventicle, had		
				66 neither reason, truth, nor argu-		
				67 ment, he was master of nothing		
				68 but scandal and detraction. Me-		
				69 thinks it is a great pity that we		
				70 have not a colt or silly lineally		
				71 descended from Balaam's As, to		
				72 preach in our modern Conven-		
				73 ticles: for I flatter myself, the		
				74 audience would be instructed		
				75 with more meekness, and better		
				76 morals, but less obstinacy and		
				77 presumption, than such vocifer-		
				78 ous animals as enjoy the confi-		
				79 dence of the ignorant people,		
				80 but have not half so much inno-		
				81 cence nor honesty as Asses.		

NOVEMBER hath xxx Days.				M D	Declin. South.
First Quarter	3	} Day at {	1 ho. 11 m. Morn.	1	14° 18'
Full Moon	9		6. 47 After.	6	15 58
Last Quarter	17		7 48 Morn.	11	17 20
New Moon	25		7. 55 Morn.	16	18 39
☉ enters ♌ 22d day, at 11 ho. 25 m. Night.				21	19 51
				26	20 53
1	20	Ma All Saints.		Nor is perfidiousness confin'd,	
2	21	Tu Duke of Kent ho.		1767. All souls.	
3	22	W Pr. Sophiab. 1777		On mor. of All Souls. 1. ret.	
4	23	Th		To mean low stations of mankind.	
5	24	F Powder Plot 1605.		For wretches quite as mean and base,	
6	25	S Leon. Mic. Ter. b.		Indeed 'tis no uncommon case,	
7	26	C 1 Sund. aft. Trin.		To see such, who in coaches ride;	
8	27	M Pr. Aug. Soph. b.		Limbs of the law, and what beside?	
9	28	Tu Ld. Mayor's Day		Those who have store enough of	
10	29	W		wealth,	
11	30	Th St. Martin.		Obtain'd, by lying, cheating, stealth.	
12	31	F On mor. of St. Mar.		Merchants who budge on the Ex-	
13	Nov.	S Britius		change,	
14	2	C 22 Sund. aft. Trin.		Packmen who thro' the country range,	
15	3	M Machutus.		Shopkeepers lying by the hour,	
16	4	Tu		Striving to cheat with all their power,	
17	5	W Hugh, Bp. of Lin.		Lame-ducks from Jonathan's wh	
18	6	Th In 8 d. of St. Mart.		come,	
19	7	F { 3 ret.		And difficultly waddle home;	
20	8	S Edm. K. and Mart.		Farmers, who overcharge their stuff,	
21	9	C 23 Sund. aft. Trin.		And never think they have enough;	
22	10	M Cecilia.		Who care not, if they can but stand,	
23	11	Tu St. Clement		If all should sink throughout the land:	
24	12	W		Whose consciences all, 'tis fear'd,	
25	13	Th D. of Glo. b. Cath.		Are with a red-hot iron fear'd.	
26	14	F		Nor will I miss, upon the whole,	
27	15	S		Quack-Doctors, who in coaches roll,	
28	16	C Advent Sunday		In 15 Days of St. Martin. 4 ret.	
29	17	M [Mich. T. ends		Gild'd with gold, and deck'd with	
30	18	Tu St. Andrew		lace,	
				Serve well to hide the brazen face,	
				Of some rank cheat, 'tis oft the case.	

## Observations in NOVEMBER.

				M D	Clocks after Sun.
The essence he has found out and prepar'd,				1	16' 12"
Of which in every newspaper you've heard,				6	16 10
That makes old leachers be as sound as roaches,				11	15 48
Such doctrines new and marvellous he broaches,				16	15 4
Such cures he'd done, and stood such mighty steads,				21	14 0
As well folks make might stand upon their heads.				26	12 33
1	VII. IV.	8 a 54	6 stain'd with		
2	15	45 10 19	7 milk,		
3	17	43 II 48	8 When		
4	18	42 morn	9 Downey		
5	20	40 1 16	10 him assail'd		
6	22	38 2 43	11 Milk boil-		
7	24	36 4 10	12 ing hot		
8	25	35 5 37	13 dash'd		
9	27	33 D rises	14 round his		
10	29	31 4 a 24	15 ears,		
11	30	30 5 0	16 Soon made		
12	32	28 5 54	17 him say his		
13	33	27 6 59	18 backward		
14	35	25 8 11	19 prayers,		
15	37	23 9 25	20 And		
16	38	22 10 40	21 brought him		
17	40	20 II 51	22 off the table,		
18	41	19 morn	23 He ran out		
19	42	18 1 0	24 at the		
20	44	16 2 11	25 kitchen		
21	45	15 3 21	26 door,		
22	47	13 4 33	27 in the green		
23	48	12 5 49	28 waistcoat		
24	49	11 7 8	29 that he wore,		
25	51	9 D sets	30 As fast as he		
26	52	8 4 a 17	1 was able.		
27	53	7 5 15	2 He ran into		
28	54	6 6 36	3 a neigh-		
29	55	5 8 2	4 bour's house		
30	56	4 9 31	5 All drip-		

So much for the opinion of my predecessor, more than sixty years ago. And were he to see and hear the preaching Asses of the present day, he would hardly be induced to retract his assertions, especially were he to go to the new-fangled Baptists of our time, and see their shameless manner of administering the blessed S—.

Or the Confusion Dividers, new split from Wesley, and hear them say Amen, to downright blasphemy. If people will separate one from another in opinions, this is a thing not so much to be wondered at, for when were any two men to be found together, who were always in the same? But let all remember, what all are too apt to forget. That the Christian religion consists in practice, and that where there is no Christian practice there is no Christian religion. The man that pretends to understand it, and does not practice it, knows no more about it than a blind man does of colours, or a deaf man of sounds. What adequate idea can such have of beauty or melody? And just so much and no more of the Christian religion can any man know that will not practice, as the deaf adder does of music, who sloppeth her ears and will not hear the voice of the charmer, charm he never so wisely. This figure is exactly

DECEMBER hath xxxi Days.				M D	Declin. South.
First Quarter	2	} Day at	9 ho. 4 m. Morn.	1	21° 46'
Full Moon	9		7 40 Morn.	6	23 28
Last Quarter	17		5 33 Morn.	11	23 0
New Moon	24		9 40 After.	16	23 19
First Quarter	31		5 3 After.	21	23 28
☉ enters ♍ 22 day, at 11 ho. 51 m. Morn.				26	23 24
1	19	W	But as I now am gotten here,		
2	20	Th	Into the last month of the year;		
3	21	F	I say the doctor-cheat, the rogue,		
4	22	S	That's now become so much in vogue,		
5	23	C 2 Sund. in Advent	Is worse than they, who prey on		
6	24	M Nicholas.	wealth		
7	25	Tu	Alone, as he destroys the health.		
8	26	W Conc. of Vir. Mary	That is the greatest blessing, which		
9	27	Th	Men can enjoy by being rich.		
10	28	F	Yet are themselves the most to blame,		
11	29	S	And they may surely blush for shame,		
12	30	C 3 Sund. in Advent	To think how they the dupes are		
13	Dec. M	Lucy.	made,		
14	1	Tu	Of vain pretence and proud parade.		
15	2	W	That lead by noise and empty show,		
16	3	Th	They, on such wretches, will bestow		
17	4	F	The gold; that amply would reward		
18	5	S	Whoever merits their regard:		
19	6	C 4 Sund. in Advent	Term ends.		
20	7	M	Relieve the poor, rejoice the wife,		
21	8	Tu	And wipe the tears from widow's		
22	9	W St. Thomas, Short-	eyes.		
23	10	Th	So let these doctor-knaves be sent		
24	11	F	To the Siberian continent.		
25	12	S	That like, as on the shortest day,		
26	13	C 1 Sund. aft. Christ.	In cold and darkness bound they may,		
27	14	M St. John, Ev.	There, by their glitter shew and gold,		
28	15	Tu	None can be hurt, as none behold.		
29	16	W	But if I run this quite thread-bare,		
30	17	Th	I want it may another year.		
31	18	F	St. Stephen		
	19	Silvester	So by your leave I heart will end,		
			The monthly diary I have penn'd.		
			It's medley-pie, so therefore treat it,		
			As if you had a mind to eat it.		

Observations in DECEMBER.				M D	Clocks after Sun.
But if I take should all these bitters I,				1	10' 49"
Well know that after all I still must die;				6	8 49
And as I wish to live a little longer,				11	6 37
And know I must for younger be nor stronger,				16	4 14
Give me dear cherry-brandy, for I think,				21	1 45
Dear girls, I still could make a shift to drink.				26	Bef. 44
1 VII. IV.	10 a	57	6	the way,	that of religious truth, there
2 58	2	morn	7	It was	no knowing without doing. I
3 59	1	21	8	enough the	then, vain disputers, ye would
4 VIII III	1	43	9	people say,	know of the doctrine whence i
5 1	59	3	8	To drive	is. Speculation and study con
6 2	58	4	36	away a Turk.	duce but little or nothing to thi
7 3	57	6	3	Yet was the	only profitable knowledge. Yo
8 3	57	7	26	mistress of	cannot learn it, so not even fr
9 4	56	D rises	F	the house, in	the man that has it, but by s
10 5	55	4 a	30	Which he	going and doing likewise. An
11 5	55	5	40	was sewing	this is the reason why none o
12 6	54	6	56	at this foun-	the wicked shall understand, bu
13 7	53	8	10	ing,	the wife shall understand.
14 7	53	9	25	The only	Many shall run to and fro, and
15 7	53	10	35	one had loss,	knowledge shall be increased.
16 8	52	11	44	She forc'd	And as knowledge in this sens
17 8	52	morn	22	was for the	must needs be the practice of a
18 8	52	2	4	time to pay,	that is praise worthy. To thi
19 8	52	3	17	Which	all may say Amen.
20 8	52	4	34	Charles thus	
21 8	52	5	53	trifling	
22 8	52	7	12	threw away,	
23 8	52	8	30	When Downey	
24 8	52	9	57	ney was so	
25 7	53	3 a	56	cross.	
26 7	53	5	30	Sall Downey	
27 7	53	7	1	apt was to	
28 6	54	8	30	get drunk,	
29 6	54	9	57	And when	
30 6	54	11	22	she threw	
31 5	55	morn	7	the milk, so	
				stunk	
				Of liquor,	
				none could	
				bear her.	



# A TABLE of Terms and their Returns. 1802.

*Very necessary for all those who are so unfortunate  
as to be obliged to go to Law.*

**Hilary Term begins Jan. 23, ends Feb. 12.**

Returns or Effoign Days.	Jan.	Ex.	Ret.	Ap.	W. D.
On the Octave of St. Hilary	20	21	22	23	Saturday
In 15 days from the day of St. Hilary	27	28	29	30	Saturday
On the Morrow of the Purif. B. V. M.	Feb. 3	4	5	6	Saturday
On the Octave of the Purif. B. V. M.	9	10	11	12	Friday.

**Easter Term begins May 5, end. May 31.**

In 15 days after Easter	May	2	3	4	5	Wedn.
In 3 weeks from Easter Day		9	10	11	12	Wedn.
In 1 month from Easter Day		16	17	18	19	Wedn.
In 5 weeks from Easter Day		3	24	25	26	Wedn.
On the Morrow of the Ascension		28	29	30	31	Mond.

**Trinity Term begins June 18, ends July 7.**

On the Morrow of the Holy Trinity	June	14	15	16	18	Friday.
On the Octave of the Holy Trinity		20	21	22	23	Wedn.
In 15 days from the Holy Trinity		27	28	29	30	Wedn.
In 3 weeks from the Holy Trinity	July	4	5	6	7	Wedn.

**Michaelmas Term begins Nov. 6, ends Nov. 28.**

On the Morrow of All Souls	Nov.	3	4	5	6	Saturd.
On the Morrow of St. Martin		12	13	14	15	Tuefd.
On the Octave of St. Martin		18	19	20	21	Mond.
In 15 days of St. Martin		25	26	27	28	Mond.

*N. B.* No sittings in Westminster-hall, on Candlemas Day, Ascension Day, and Midsummer Day.

The Exchequer opens eight days before any Term begins, except Trinity, before which it opens but four days.

*Note.* That the first and last days of every Term, are the first and last days of appearance.

When Lawyers cease perverting Laws, | Perverting what is just and clear,  
And in wise Statutes finding Flaws, | The last great Judgment will be near.

# POOR ROBIN,

1802.

## PART THE SECOND.

Containing as much Astrology as is necessary for a Performance of this Kind, and no more than the Truth; which gives it by much the Preference to all other annual Prognostications; with such Tables and Observations as (added to the First Part) are highly useful to all Astronomers, Astrologers, Accomptants, Chronologers, and Politicians.

Golden Number 17 | Cycle of the Sun 19 | Dominical Letter C.  
The Epact - - 26 | Roman Indiction 5

### ASTRONOMICAL CHARACTERS.

#### PLANETS.

- ☉ The Sun.
- ☾ The Moon.
- ☿ Mercury.
- ♀ Venus.
- ♂ Mars.
- ♃ Jupiter.
- ♄ Saturn.
- ♊ Ascending Node.
- ♋ Descending Node.
- ♌ Conjunction.
- ♍ Opposition.

#### SIGNS of the ZODIAC.

- ♈ Aries.
- ♉ Taurus.
- ♊ Gemini.
- ♋ Cancer.
- ♌ Leo.
- ♍ Virgo.
- ♎ Libra.
- ♏ Scorpio.
- ♐ Sagittarius.
- ♑ Capricorn.
- ♒ Aquarius.
- ♓ Pisces.

### THE ANATOMY.



# TITUS QUINTUS FLAVIUS & GISIPPUS, A TALE.

FROM THE ITALIAN OF BOCCACE:

---

At pueri ludentes, Rex eris, aiunt,  
Si recte facies. Hic murus aheneus esto,  
Nil conscire sibi, nulla pallescere culpa. HOR.

But boys at play will tell you, you're a King,  
If right you do. Your wall of brass be this,  
To know you've nothing said, or done amiss. ROBIN.

---

WHEN great *Octavius Cæsar*, not alone,  
But of the high *triumvirate* as one,  
*Rome's* empire rul'd; there, of unfully'd fame,  
Liv'd *Publius Quintus Flavius* by name,  
Of singular report for wisdom known;  
He *Titus Quintus Flavius* his son,  
At proper age, to school at *Athens* sent,  
To gain the noble sciences his bent,  
And him to *Chremes* wrote to recommend,  
Who'd been his school-fellow and trusty friend;  
That *Titus* might with his own son *GISIPPUS*  
Be plac'd to study under *Aristippus*;  
A worthy sage of note, whose moral rules  
Were then the pride of the *Athenian* schools.  
The praise of friendship was his constant theme,  
It the first place possess'd in his esteem,  
Because he by experience understood,  
That it confin'd was to the wise and good.  
That 'tis with friendship, as it is with peace,  
Among the wicked both must quickly cease.  
His lessons, heeded by our two young friends,  
Produc'd soon the most salutary ends.  
One home they had, and at one table fed,  
Which such a brotherhood between them bred,  
They could not sever'd be from one another,  
But each lov'd each as if he were his brother:  
They both together to all places went,  
Or neither of them could enjoy content;

So fast cemented thus their friendship grew,  
 As if one heart and mind commanded two.  
 By patient study they enhanc'd delight,  
 And of sound learning reach'd the glorious height.  
 Thus to the comfort of old *Chremes* they  
 Contributed, and heighten'd every day.  
 All this continu'd of three years the space,  
 Till *Chremes* then ended of life the race.  
 Whereat both gentlemen to grieve are seen,  
 As if he had their common father been:  
 To say which had of comfort the most need  
 Was hard, so equal seem'd the loss indeed.

In two months after this, *Gisippus* led  
 Was by his kinsfolks, wishing him to wed:  
 They (before *Titus*) him advis'd to try,  
 The noble fair *Sophronia*, who liv'd nigh:  
 A girl of sweet fifteen is quickly led,  
 To think of and approve a bridal bed.  
*Gisippus*, universally approv'd,  
 She hop'd and thought was worthy to be lov'd.  
 This marriage drawing near, he *Titus* took  
 With him, on his intended bride to look.  
 In woman's love no partnership is known,  
 All prudence from *Gisippus* sure was flown:  
 The bright perfections of *Sophronia* seen,  
 By *Titus*, till that day had never been;  
 He saw, admir'd, and lov'd, but dare not stay,  
 Doom'd henceforth, as he felt, to pine away.  
 He to his chamber fled to be alone,  
 But there, alas! in thought she brighter shone;  
 Her image he had always in his sight,  
 He thought all day, and dreamt thereon by night.

How love and hope, unhappy I, he cries,  
 Transport my senses, fascinate my eyes!  
 Where is my gratitude to *Chremes* now?  
 And to *Gisippus*, where the sacred vow  
 Of friendship? Fie on me, for shame! O sure!  
 How love beguiles, and how vain hopes allure!  
 Open thine eyes, most miserable man!  
 And let right reason bridle, if it can,  
 Irregular desires; let tumult cease,  
 And guide my fancy to a place of peace.  
 Resist thy wanton and lascivious will,  
 That I may master of myself be still.

Whatever cannot honestly be done,  
Should surely, by all means, be let alone;  
For the repute then of a man of sense,  
Inordinate affection banish hence.

Discouraging with himself, the wretched wight,  
Remembrance of *Sophronia* turn'd it quite,  
And, guided by his idle appetite,  
He thus again began. The laws of love,  
The bonds of friendship break, nay, far above  
All this. It has been of the father noted,  
That he has even on his daughter doated:  
The brother on his sister, spite of awe,  
And the step-mother on her son-in-law.  
Matters more monstrous far, than 'tis to see  
One friend another's wife with to make free.  
I'm young, and youth subjected is to love,  
As every day's experience must prove.  
Things honest more to older heads belong,  
Nor will I envy them; but I am young:  
The fair *Sophronia* is my heart's delight,  
All day I think of her, and dream all night.  
Should I not love her, because now I see,  
She's affianc'd to him? What's that to me?  
As she's a woman, her I ought to love,  
For this ordain'd was by the powers above:  
'Tis *Fortune* only sinn'd has in this case,  
That she seems destin'd to my friend's embrace.  
*Gisippus*, understanding how I love her,  
Had better let me have her than another.

With fancies such as these, himself he mock'd,  
Then with contrary ones as much was shock'd:  
And then resum'd the contrary again,  
To waste, consume, and vex himself in vain;  
Nor only this day and the next thus kept,  
But many more he neither fed nor slept;  
Till thro' debility of body led,  
He found himself constrain'd to keep his bed.

*Gisippus* noted soon his melancholly,  
But never dreamt it sprung from his own folly:  
Enquir'd the cause. This *Titus* would not tell,  
But in extremity of sickness fell.  
After much importunity was past,  
And thinking every day would be his last,  
At length, in sighs and tears, he thus reply'd.  
*Gisippus*, were the gods so pleas'd, he cry'd,

I far more gladly now could yield to die,  
 Than longer in this state of misery lie.  
 When I to such extremity am driven,  
 And proof of virtue in me should be given,  
 To my eternal shame, it is I see,  
 And own confounded, conquer'd all in me.  
 But my best hope is to resign my breath,  
 And be requited, as I ought, with death,  
 Which will a thousand times more welcome be,  
 Than a loath'd life, remembrancer to me  
 Of baseness: which, unable to conceal,  
 With blushing shame, content am to reveal.  
 Then he began the occasion to recount  
 Of this strange conflict in him, and the fount  
 Of strife, with all his private thoughts within,  
 Owing he vanquish'd was by shame and sin.  
 Saying, for love of fair Sophronia, I  
 Am hourly, as it were, condemn'd to die.  
 And that with due acknowledgment he spoke,  
 How he'd the sacred laws of friendship broke:  
 No other penance was enough, he thought,  
 But the just death he on himself had brought:

*Gisippus*, seeing this affect him so,  
 And that he wept in agonies of woe,  
 For a good while quite pensive sat and sad,  
 The love, which he too for *Sophronia* had,  
 Being the reason nothing he could say;  
 Yet as his love was in a well-rul'd way,  
 And seeing *Titus* suffer by delay,  
 Concluded that the life of his dear friend  
 Was the first thing to which he should attend;  
 And ought to be accounted much more dear  
 Than all the love for her he had to bear:

*Titus*, he says, of comfort thou hast need,  
 Too true, too plainly, I it see indeed;  
 Yet help I cannot of thee to complain,  
 To be in such extremity of pain,  
 So over-tedious for thee to endure,  
 Yet not to suffer me to try to cure.  
 You, doubtless, held it a dishonest case,  
 Asham'd to own what you held mean and base:  
 So to be kept from knowledge of your friend,  
 For fear our league of amity should end.

But let me tell you, it thus to conceal,  
Was more unfriendly; than it to reveal.  
So leaving now these wanderings all and some,  
To matters of necessity let's come.

That you in love with fair *Sophronia* be,  
Who is betroth'd and affianc'd to me,  
I wonder not so much. I rather shou'd  
Abash'd be, if you neither wou'd nor cou'd  
Affect her, for nobility of mind  
And peerless beauty, I should think you blind.  
Nor reasonable is it to infer,  
Or of your lot complain for fancying her,  
Because she seems the wife ordain'd for me.  
Altho' you do not say, I plainly see,  
More honest you would act, to think incline,  
If she were any other man's but mine.  
To whom, than me, could fortune better guide,  
Or her bestow on one more on thy side?  
Be thankful. For, if her another had,  
Know, be thy love then either good or bad,  
He for his own would keep her safe from thee,  
But the same usage must not come from me.  
From a true friend, know only death can sever;  
And I am true and constant now as ever.

'Tis reason, this forget I never can,  
That since the day our friendship first began,  
I never any thing enjoy'd as mine,  
But equally I held it to be thine.  
If our affairs in equal course have run,  
'Tis just they should go on as they begun;  
Can any thing to me then appertain,  
Which thou canst wish for, and yet sue in vain?  
*Sophronia* is betroth'd to me, 'tis true,  
I love her dearly as I ought to do:  
But as thou, with more fervency than I,  
Adorest, better able to espy  
And judge of her perfections; so, know this,  
As excellent a creature as she is,  
Assure thyself she to a bed of mine  
Shall come, but not as my wife, but be thine:  
Chear up, my friend, then, banish fell despair,  
And be, as usual, blithe and debonaire.  
Thy long and loving friendship I'll requite,  
Which, as my life, I value with delight.

*Titus* heard this, nor was he much to blame  
In joy to be confounded too with shame.  
The other's liberality in giving,  
Render'd far more disgraceful his receiving.  
Wherefore, from tears unable to refrain,  
He, with what strength he'd left, reply'd again.

Thy bounty and firm friendship make me see  
The part, which to be done, belongs to me.  
The gods forbid me to receive as mine,  
Her they adjudg'd have to be only thine,  
By due respect both of desert and birth.  
And had those lords of every thing on earth,  
Thought fit to think her a fit wife for me,  
I never should have given her to thee:  
Use freely, therefore, her who is thy choice,  
And for their gift be thankful and rejoice.  
O leave me to distil the falling tear,  
A mourning robe alone fits me to wear:  
Being a man unworthy of such bliss;  
For either I in time shall conquer this  
Disaster, which my glory's crown will prove,  
Or I shall ended be by hopeless love.

To this *Gisippus* answer gave and soon,  
Dear *Titus*, let our friendship beg this boon:  
I'm by our common good alone directed,  
Pray, let what I think fit then be respected.  
This is the only end I have in view,  
And let me, I conjure thee, this pursue:  
I then must use the freedom of a friend,  
My honour, and thy good, I both intend.  
I know sufficiently the powers of love,  
That stronger than the bands of life they prove.  
That thou wilt conquer love, hope there is none,  
For that too deeply in it thou art gone:  
It soon will end thee too, if cross'd and vex'd,  
And then my turn to follow thee is next.  
If I'd no other cause then to love thee,  
But that my life is very dear to me,  
Because my own depends on thine, I so,  
For my own safety, am oblig'd thereto.  
The weather's foul, therefore to make it fine,  
Doubtless, the fair *Sophronia* must be thine.  
A wife both fair and good I may obtain,  
But never such a friend shall find again.



Wives fair and good indeed don't much abound,  
 But true and faithful friends more rare are found;  
 To shew such liberality herein,  
 No easy matter would be to begin;  
 But as another wife may, in the end,  
 Be found, but never such a worthy friend;  
 I lose her not, in giving her to thee,  
 But hope to be a gainer, and to see  
 I, by the change, make what was good before,  
 By thee preserving, double ten times o'er.  
 So if my pray'rs have with thee any force,  
 I earnestly intreat thee, take this course;  
 Us both to free from misery, by hope  
 Of soon obtaining all our wish and scope.

Now *Titus*, quite abash'd, consent to give  
 To what his friend advis'd, to love and live:  
 Most powerful pleaders these, both one and other,  
 Knowing *Gisippus* lov'd him as a brother,  
 Thus answer'd him. I know not what to say,  
 Or how behave myself in either way,  
 Besitting my untowardly occasion,  
 And pleasing thy importunate persuasion.  
 Seeing thy liberality of aim  
 Surmounts, in me, all reason and all shame,  
 I to thy more than noble nature yield:  
 Yet let this thine assurance be, and shield,  
 That I receive this grace of thee, as one  
 To whom its worth cannot enough be known,  
 Her only to enjoy whom I affect:  
 Nay, owe my life to thee in this respect,  
 Grant then, great gods, if you the patrons be  
 Of my unparallel'd felicity,  
 That I may shew my honour and respect,  
 And no requital in my power neglect.

*Gisippus* stopp'd him, and reply'd, I say,  
 Of acting, this I hold our only way:  
 Thou knowest well how much discourse has past  
 Between her kin and mine, till at the last  
 The matrimony fully was agreed on.  
 'Twill be a strange dish then for them to feed on,  
 To say I will not have her after all:  
 What scandal on me, and my friends, must fall;  
 But that I should not so much mind, I say,  
 If that for thee to gain her were the way,

But

But I'm afraid, if I forsake her so,  
 Her friends will on some other her bestow;  
 Then she is lost for ever. Therefore I,  
 If you approve, this to prevent will try,  
 Continue to go on. And to this end,  
 Thou always must be present and attend,  
 As my associate and dearest friend. }

The nuptial day once come, then must we strive,  
 At night, as we can cunningly contrive,  
 That thou shalt have the honour of her bed,  
 Unknowing but thou art the spouse she'd wed;  
 And afterward, in the apt time and place,  
 We publicly make known will all the case:  
 If friends say well, we'll jocund be as they,  
 But if they frown, the deed is done, we'll say;  
 That now 'tis overlate it to recall,  
 So it they'd better be content withal.

It was the custom, both of Greece and Rome,  
 To take the bride first to the husband's home;  
 And this *Gisippus* did not fail to do,  
 In public, as this was the custom too.  
*Titus* recover'd and, and at the feast,  
 All done was ceremoniously at least:  
 At night the ladies to her chamber led  
 The bride, and left her in her husband's bed.

The chambers of these friends were closely join'd,  
 For access and recess when they'd a mind.

*Gisippus* softly to the chamber went,  
 Of *Titus*, to fulfil his whole intent;  
 But *Titus* overcome with shame was, so  
 Became repentant, and refus'd to go:  
 But as *Gisippus* was a friend indeed, }  
 After some chiding, whereof he had need,  
 Forc'd him to act as they'd before agreed. }

The customary words us'd to be said,  
 Soon as the groom was with the bride in bed,  
 To move this question, without fear of strife,  
 If she were willing to become his wife?

This *Titus* did. She modestly reply'd,  
 Not doubting 'twas *Gisippus* by her side,  
 Sir, I have chosen you my spouse to be,  
 To be your wife I must and will agree.

He on her finger put a costly ring,  
 Which too was usual in those days to bring,  
 And I too with this ring myself now bind  
 To be your husband faithful, true, and kind;

And

And make you thus become my spouse and wife  
 In holy bands, that only end with life.  
 No other marriage in those days was known,  
 And so all night he stay'd with her alone.  
 But he *Gisippus* was, she ne'er suspected;  
 With *Titus* thus the wedding was perfected:  
 Altho' her friends thought otherwise, and the  
 Wife of *Gisippus* deem'd herself to be.

As all deceit dishonest is they knew,  
 And most unworthy of the just and true,  
 A virgin to deceive, is mean and base,  
 And as they knew it a dishonest case,  
 They both came to her without more delay,  
 And told her the whole truth that very day.  
 She sat astonish'd as they this declar'd,  
 Then shudder'd, blush'd for shame, at what she heard;  
 And bursting into tears, alone replies,  
 Ah! wo is me! what shall I do? she cries;  
 Then of *Gisippus* bitterly complain'd,  
 Who thus her virgin innocence had stain'd.

*Titus* replies, my lady and my wife,  
 My friend by acting thus has sav'd my life:  
 By grief and love tormented, as I thought,  
 Quite hopeless, I to point of death was brought,  
 His peerless generosity me gave  
 Timely relief, and snatch'd me from the grave.  
 O pardon him! whose friendship true for me,  
 Him such a treasure lost as loosing thee.  
 It shall be the endeavour of my life,  
 To shew I worthy am of such a wife:  
 And I've abundance of all things in store,  
 That needful are to happiness, and more:  
 That ring upon thy finger while I see  
 Of duty, my remembrancer shall be:  
 Therefore be comforted, my lady fair,  
 My love, my life, my every thing you are.

But when the kin on both sides heard the news,  
 Thus unexpectedly that cross'd their views,  
 All blame *Gisippus*, and raise such a noise,  
 As soon all amity and peace destroys.  
 While he in public still the deed defends,  
 As no more than the duty of all friends:  
 And that *Sophronia's* kin need not complain,  
 He said, of what was done, as he'd maintain;  
 But cause had to rejoice, because thus she  
 Had wedded a far richer man than he

Could

Could e'er pretend to be. *Titus* was come  
Of a patrician house in mighty Rome

Now *Titus*, hearing of this discontent,  
To call the kindred on both sides soon went,  
And met them at a temple, where, 'tis said,  
A set oration to them all he made :

But for the whole, as I have not here room,  
Of reasons that he gave them, these were some.

He their hard censures much did discommend,  
And told them why they ought to spare his friend :

As to himself, tho' he a scholar mean,  
And studying among them then was seen,  
He could assure them that he was not come  
Of the most simple stock in mighty Rome.

My houses and the public places are  
Fill'd with the ancient statues, I declare,  
Of my ancestors, and the rolls record  
The triumphs of the *Quintii*, in a word,  
Brought home into *Rome's* Capitol, our name  
Must ever flourish in the lists of fame.

And as to my possessions and my wealth,  
I'm silent, knowing competence and health :  
Nay, of our noble Romans the best meant,  
Thought honest poverty and true content  
The oldest and most high inheritance.

'Tis only vulgar minds so much inance  
And doat on treasures, yet e'en in this way  
Abundantly provided, I may say :  
Not as ambitious, covetous of more,  
But I've of Fortune's goods sufficient store.

The time of ending here my stay is come,  
As letters yesterday arriv'd from Rome,  
Informing me my father's dead and gone ;  
And so necessity is laid upon

Me, with *Sophronia* speedy to depart :  
I've therefore open'd to you all my heart.

If I had an intention to deceive,  
I could have basely left her here to grieve ;  
And made a scorn and mock of her and you :  
That you've no power to stay me here, 'tis true,  
But may the gods me punish, as they ought,  
If ever I conceive so vile a thought.

By ordination of the powers above,  
By human laws, and by the force of love,

By friendship of *Gisippus*, near divine,  
*Sophronia* is and ever shall be mine.  
 And if you it oppose, I tell you plain,  
 Your impotent attempt is all in vain:  
 For when I come to Rome, I need but call  
 For justice, and her fetch, spite of you all.  
 None with impunity, you'll find, can wrong  
 Indignant Romans, or by act or tongue.  
 When *Titus* had concluded, with stern look  
 At all the rest, *Gisippus* with him took  
 Out of the temple, seeming not to care,  
 But rather to menace them than to fear.

They were so terrify'd at this bold speech,  
 That, following *Titus* out, they all and each  
 Said, well content they were to end all strife,  
 That he should have *Sophronia* his wife ;  
 And be their loving kinsman to the end,  
*Gisippus* too their much respected friend.  
 So they embracing, made a solemn feast,  
 As customary, nor delay'd the least  
 To send *Sophronia*, And she in state  
 With him arriv'd at Rome, in honour great.

By that fatality, which still attends  
 Human affairs, when Providence has ends  
 To serve, which if they're rightly understood,  
 Are for the best, and always wise and good.  
 In few years space *Gisippus* came to Rome,  
 Exil'd and outcast from his native home ;  
 With neither clothes needful to give him heat,  
 Nor money wherewithal to buy him meat ;  
 So in the street, both impotent and poor,  
 He wishing watch'd of *Titus* the gilt door,  
 Who was a senator, and had command,  
 As soon he learn'd, in the pretorian band.  
 So, as he durst not speak to such an one,  
 He stood in hopes of being seen and known :  
 But all is vain, for *Titus* pass'd him by,  
 Nor on the wretched beggar cast an eye.  
 He took it in his head that *Titus* knew him,  
 But would not notice him, nor pity shew him.  
 So in a cave, in a place unfrequented,  
 He hid himself, and his hard lot lamented.  
 Sad weary work it is to fast and weep,  
 So overcome thereby he fell asleep.

Two men, who had been thieving the same night,  
 Came to the place before the morning light,  
 Their booty to divide; but falling out,  
 To blows they quickly came their shares about,  
 Till one the other slew, and took the whole;  
 Leaving the dead man by *Gisippus* hole:  
 Who, having heard and seen the accident,  
 Was at it rather joyful and content:  
 As having found thereby the way to death,  
 To end his misery, and stop his breath:  
 Wherefore he stay'd till the dead man was found,  
 When he, for murder, was in prison bound.  
 Before the prætor *Marcus Varro* then  
 He brought, confess'd, condemn'd was forthwith, when  
*Titus*, his friend, who at the bench too sat,  
 Beheld, and knew him, in that wretched state.  
*Gisippus* saw him there, but hopes were flown  
 That him he then would either see or own,  
 Till he cries, *Marcus Varro*, pray recal  
 Your sentence, and let vengeance on me fall;  
 'Twas I the man that murder'd. As for this  
 Poor wretch, I know he's nothing done amiss:  
 For being strictly search'd by all around,  
 A weapon of no kind on him was found;  
 His misery it was made him confess  
 The deed that no man guilty is of less:  
 So let the punishment now fall on me,  
 And let the wretched creature here go free.  
*Gisippus* saw and heard with much surprise,  
 But scarcely could believe his ears and eyes.  
 Tho' in the midst of misery and distress,  
 Presence of mind he ceas'd not to possess:  
 His noble soul calamity thus great  
 Had not quite broken down the frowns of fate  
 Him to forget himself, yet could not force  
 Nor drive him from his steady fearless course.  
 Guilt is a coward, but brave are the good,  
 Marvellous trials of their strength have stood:  
 His hard hap had not quite his bosom steel'd,  
 He scorn'd in generosity to yield;  
 But cries, most noble *Titus*, 'tis untrue,  
 This murder I am guilty of, not you.  
 With wonder, *Marcus Varro* hearing this,  
 Was well convinc'd neither had done amiss.

About to rise was, and acquit them, when,  
 One *Publius Ambustus*, well known then  
 For a notorious rogue, touch'd with remorse,  
 Confess'd the murder, and his wicked course  
 Made all believe it. To *Octavius* now  
 The news of this strange trial came, and how  
 The matter stood, he wishing much to hear,  
 Summon'd all three before him to appear.  
 The thief he pardon'd, because he'd the grace  
 To own the truth in this uncommon case,  
 And then to *Titus* first himself address'd,  
 Knowing he had of characters the best,  
 Begg'd him the reason fully to explain,  
 To own a crime, all knew he must disdain  
 Not only to be guilty of, but fit,  
 With all severity, to punish it  
 Would hold, and if he sat as judge, would take  
 All care of those who guilty were to make  
 Examples, knowing well that shedding blood,  
 In all wise governments, was understood  
 Immediate vengeance to bring on the head  
 Of him, by whomsoever it be shed.  
 Surely this man to him then was no stranger,  
 That his own life he'd thus for him endanger.  
*Titus*, in art of elocution vers'd,  
 From the beginning now the whole rehears'd,  
 While great *Octavius*, and the audience round,  
 In silent admiration all seem'd bound.  
*Octavius* reply'd, all must commend  
 Nobility of soul, and a true friend,  
 In eminent degree, possess this must,  
 The mean and sordid are not fit to trust:  
 But say, *Gilippus*, hither how came you  
 To, in such wretched plight, appear in view?  
 When *Titus* had left Athens, I as one,  
 Who'd sold his love for gold, was look'd upon.  
 My only friend I lost had, he replies;  
 New enemies seem'd daily to arise,  
 And strive to make it known and understood,  
 I was no fit associate for the good.  
 My very kindred, as if none desir'd  
 My good, but ruin was what they conspir'd:  
 And this they wrought: this brought me hither to Rome,  
 In need, an exile from my native home.

Not

Not come in vain, *Octavius* replies ;  
 My wish is to retain the good and wise :  
 That you are worthy, I both hear and see ;  
 You therefore are acceptable to me.  
 I give you a centurion's command,  
 And to be near me, place in my own band.  
 On *Titus* too I know you may depend,  
 He'll let you be no looser in the end.  
 It after this scarce needful is to add,  
 From *Titus* what reward *Gisippus* had,  
 All this the friend who'd suffer for another,  
 Who would refuse to love him as a brother ?  
 Thus *Titus* did, he made him rich, and then  
 His virtues gain'd esteem from other men.  
 The sister fair of *Titus* too, we're told,  
 With partial eyes began him to behold :  
 By name, the beautiful *Flavia*, till we find  
 In Hymen's holy temple to be join'd -  
 In bands for life to last. *Sophronia* too  
 Did all for them a sister ought to do.  
 So mutual kindness and endearments pass,  
 Thro' life, increas'd and flourish'd to the last.  
 For a true friendship and a mutual love,  
 Pleasing to man is, and the pow'rs above.

*Near Saffron Waldron, April 20, 1801.*

### Of the ECLIPSES which will happen this present Year 1802.

They will be four, two of each luminary, as follows :

(1) March 4th, in the morning the Sun will be eclipsed, but invisible at Greenwich. The conjunction being at 55 min. past 4. in longitude 11 signs 12° 57'. Moon's latitude 42° 1-3d. S. The Eclipse will be central on the meridian at 23' half past 4, in lon. 114° 7' 1-half E., lat. 58° 1-3d S.

(2) March 19th, in the morning, the Moon will be eclipsed, but invisible here. Beginning at 49' 1-half past 9. Middle 6' past 11. End 22' 1-half past noon.

(3) August 28th, in the morning, the Sun will be eclipsed, partly visible at Greenwich. The Sun rises eclipsed at 5 min. past 5; the visible conjunction at 17' 1-qr. past 5; greatest obscuration at 18 min. 3-qr. past 5. End 13 min. past 6. Digits eclipsed 4° 44' on the Sun's North Limb.

(4) September 11th, at night, the Moon will be visibly eclipsed at Greenwich. Beginning at 13' 1-half past 9. Middle 39' 1-qr. past 10. Ecliptic opposition 45' 3-qr. past 10. End 5' past 12. Digits eclipsed 9° 12' on the Moon's South Limb.

On November the 9th, in the morning, will be a Transit of Mercury, whose centre will enter the Sun's disk at 29 min. past 6. Mercury's lat. then 1' 1-half S. Egress at noon, Mercury's lat. then 3' 1-qr. N.



## OBSERVATIONS ON THE FOUR SEASONS.

SOME things, it has been often observed, are wont to inspire a kind of melancholy joy, mingled with uneasy sensations, and such a subject is that of the various seasons of the year. At the commencement, we see our churches and houses decked out with the beautiful evergreens, holly, ivy, &c. which custom seems meant to honour the holy season of Christmas, by displaying the most lasting ornaments of the fields and woods that nature then affords. The custom is certainly of high antiquity, and similar or perhaps derived from that of crowning, with laurel and bays, the conquerors at the Olympic games, not to mention the veneration in which the mistletoe of the oak was held by the druids or priests in this our island of Britain. These things, no doubt, were held as emblems of something worthy to claim the attention of mankind. Though the memory of the precise meaning of them be, through length of time, in a great degree lost, owing to the mutability of human affairs, and the crude notions of the credulous vulgar; the bays and laurel, we know, were held as emblems of immortal fame, and therefore prized, with the highest enthusiasm, by all the victors both in the games and in the camp. And why may not the holly and ivy claim the same veneration? The former were but the emblems of types and shadows; but the latter, from their use, may be esteemed the emblems of that most important reality, the bringing of life and immortality to light. Let whoever then beholds these emblematical ornaments; apply the sight thereof to its proper use, and bless the day that they first became acquainted with it. For be assured, that no man knows what true pleasure is till he becomes indeed a Christian. But I must not here go on preaching at this rate, lest room be not left me to observe, that when the solemnity of Christmas is over, allowing it even to last till Candlemas; the welcome genial *Spring* is not to be expected to begin till Sunday, the 21st day of March, in the morning, and many a bitter wintry blast has been left after that time. But still it is the season of hope, and therefore pleasant, as being the young time of the year. And when thereby things are brought to some maturity, comes the season called

*Summer*, which this year begins on the 22d day of *June*, when the *Sun* having arrived at the northern boundary of his apparent annual course, has the greatest power to warm and fructify the soil, and increase the force of vegetation; till by this means the fruits of the earth being ripened,

*Autumn* begins on the 23d day of *September*, when it is again equal day and night, the former constantly diminishing, and the latter increasing in length. Now is the time for gathering in the roots and fruits. For as surely as the three former seasons have come, so certainly will come

*Winter* while the world lasts, which this year begins on the 22d day of *December*, or the shortest day. And this is the time for fire-light, candle-light, good thoughts, good books, and good deeds, which are never out of season.

In my last, for *Imolus*, read *Imolus*.

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PRINTED FOR THE COMPANY OF STATIONERS,  
BY G. WOODFALL, 22, PATERNOSTER-ROW, LONDON.

*Speculum Anni:*  
OR,  
**SEASON on the SEASONS.**  
For the Year of our LORD 1802;

BEING THE SIXTH AFTER  
**BISSEXTILE, OR LEAP YEAR,**  
And the SECOND YEAR of the NINETEENTH CENTURY:  
Wherein you will find all Things necessary for  
such a Work; Sun and Moon's Rising and Setting;  
Moon's Southing, Planets Places and Aspects, Eclipses,  
Judgments on the Weather, and Four Quarters; Remarks  
about the Sun, Monthly Poetry, and other Novelties.

By **HENRY SEASON,**  
*LICENSED PHYSICIAN,*  
And Student in the CELESTIAL SCIENCES, near DEVIZES.  
With a particular Judgment of the ECLIPSES, &c.

*Omnis donatio bona, & omne integrum bonum  
Est superne descendens à patre Luminum — JAC. 1. 17.*

God hath granted me to speak according to my Mind, and to judge  
worthily of the Things that are given me; for He is the Leader unto  
Wisdom, and the Director of the Wise: How the Times alter, the  
Change of the Seasons, the Course of the Year, and the Situation of  
the Stars.

The sacred Fiat was no sooner nam'd,  
But Heav'n with all its Hosts were fram'd;  
Phœbus display'd his fiery Car,  
And Wisdom marshall'd ev'ry Star;  
Sev'n Worlds around the Sun did glide,  
He gave their Light, and Motions guide;  
By secret, fix'd, attractive Laws,  
They all confess th' Almighty Cause.

The AUTHOR's Sixty-Ninth Impression.

**LONDON:**  
Printed for the COMPANY of STATIONERS,  
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## The common Notes for the Year 1802.

The Golden Number - - 17	Shrove-Sunday - - Feb. 25
The Epact - - - - 26	Ash-Wednesday - Mar. 3
The Cycle of the Sun - - 19	Easter-Day - - April 13
Dominical Letter - - C	Whit-Sunday - - June 6
Roman Indiction - - - 5	Advent-Sunday - Nov. 28
Septuagesima Sunday Feb. 14	Sundays after Trinity - - 23

## The 12 Signs.

## The 7 Planets, and the Aspects.

♈ Aries  
 ♉ Taurus  
 ♊ Gemini  
 ♋ Cancer  
 ♌ Leo  
 ♍ Virgo  
 ♎ Libra  
 ♏ Scorpio  
 ♐ Sagittarius  
 ♑ Capricorn  
 ♒ Aquarius  
 ♓ Pisces

☉ Sun  
 ☾ Moon  
 ♄ Saturn  
 ♃ Jupiter  
 ♂ Mars  
 ♀ Venus  
 ☿ Mercury  
 ☿ Conjunction  
 \* Sextile  
 □ Square  
 △ Trine  
 ⋈ Opposition

## The four Quarters of the Year.

		d	h	m	
Spring Quarter begins - - -	March	21	7	35	Morn.
Summer Quarter begins - - -	June	22	5	27	Morn.
Autumn Quarter begins - - -	Sept.	23	7	8	Aftern.
Winter Quarter begins - - -	Dec.	22	11	51	Morn.

Venus will be a Morning Star till March 17, and then an Evening Star for the rest of the Year.

Jupiter will be an Evening Star till September 9, then a Morning Star for the rest of the Year.

A TABLE of the **KINGS and QUEENS** of England,  
from the **CONQUEST** to the present Year 1802.

<i>Names of Kings.</i>	<i>Born Ann.</i>	<i>When Began to reign.</i>	<i>Reign. Y. M.</i>	<i>Since their Reign ended.</i>	<i>Buried at</i>
William 1	1029	1066, Octob. 14	20 11	715, Septem. 9	Caen, Nor.
William 2	1057	1087, Sept. 9	12 11	702, August 2	Winchest.
Henry 1	1068	1100, Aug. 2	35 4	667, Decemb. 1	Reading.
Stephen	1105	1135, Dec. 1	18 11	648, Octob. 25	Feverham

The Saxon Line Restored.

Henry 2	1133	1154, Oct. 25	34	8613, July	6 Fontevr.
Richard 1	1156	1189, July 6	9	8603, April	6 Fontevr.
John	1165	1199, April 6	17	6586, Octob.	19 Worcester
Henry 3	1207	1216, Oct. 19	56	1530, Nov.	16 Westmin.
Edward 1	1239	1272, Nov. 16	34	8495, July	7 Westmin.
Edward 2	1284	1307, July 7	19	7475, Jan.	25 Gloucester
Edward 3	1312	1327, Jan. 25	50	5425, June	21 Westmin.
Richard 2	1366	1377, June 21	22	3403, Sept.	29 Westmin.

The Line of Lancaster.

Henry 4	1367	1399, Sept. 29	13	61389, March 20	Canterb.
Henry 5	1389	1413, Mar. 20	9	5380, August 31	Westmin.
Henry 6	1421	1422, Aug. 31	38	61341, March 4	Windfor.

The Line of York.

Edward 4	1442	1461, Mar. 4	22	1319, April 9	Windfor.
Edward 5	1471	1483, April 9	0	2319, June 22	Unknown
Richard 3	1442	1483, June 22	2	2317, August 22	Leicester.

The Families United.

Henry 7	1456	1485, Aug. 22	23	81293, April 22	Westmin.
Henry 8	1492	1509, April 22	37	91255, Jan. 28	Windfor.
Edward 6	1537	1547, Jan. 28	6	51249, July 6	Westmin.
Qu. Mary	1516	1553, July 6	5	41244, Nov. 17	Westmin.
Qu. Eliz.	1533	1558, Nov. 17	44	41199, March 24	Westmin.

The Union of the Two Crowns.

James 1	1566	1603, Mar. 24	22	01177, March 27	Westmin.
Charles 1	1600	1625, Mar. 27	23	101153, Jan. 30	Windfor.
Charles 2	1630	1649, Jan. 30	36	0117, Feb. 6	Westmin.
James 2	1633	1685, Feb. 6	4	01113, Feb. 13	S. Germam
Will. & Mary 2	1650	1689, Feb. 13	13	11100, March 8	Westmin.

The Union of the Two Kingdoms.

Qu. Anne	1665	1702, Mar. 8	12 5	88, August 1	Westmin.
George 1	1660	1714, Aug. 1	12 20	75, June 11	Hanover
George 2	1683	1727, June 11	3 4	42, Oct. 25	Westmin.
George 3	1738	1760, Oct. 25		Crowned Sept. 22, 1761.	

## A TABLE OF TERMS AND THEIR RETURNS.

Hilary Term begins January 23, ends February 12.

Returns or Effoign Days	—	—	E	R	A	W.D.
In eight Days of St. Hilary	—	Jan. 20	21	22	23	Satur.
In 15 Days of St. Hilary	—	—	27	28	29	Satur.
On the Mor. of the Purificat. of B.V.M.	Feb. 3	—	4	5	6	Satur.
In eight Days of the Purificat. of B.V.M.	—	9	10	11	12	Frid.

Easter Term begins May 5, ends May 31.

In 15 Days after Easter	—	May 2	3	4	5	Wedn.
From Easter in 3 Weeks	—	—	9	10	11	Wedn.
From Easter in 1 Month	—	—	16	17	18	Wedn.
From Easter in 5 Weeks	—	—	23	24	25	Wedn.
On the Morrow of the Ascension-Day	—	28	29	30	31	Mond.

Trinity Term begins June 18, ends July 7.

On the Morrow of the Holy Trinity	—	June 14	15	16	18	Frid.
In eight Days of the Holy Trinity	—	—	20	21	22	Wed.
In 15 Days of the Holy Trinity	—	—	27	28	29	Wed.
From Day of Holy Trinity in 3 Weeks	July 4	—	5	6	7	Wed.

Michaelmas Term begins Nov. 6, ends Nov. 28.

On the Morrow of all Souls	—	Nov. 3	4	5	6	Satur.
On the Morrow of St. Martin	—	—	12	13	14	Tues.
In eight Days of St. Martin	—	—	18	19	20	Mond.
In 15 Days of St. Martin	—	—	25	26	27	Mond.

N. B. No Sittings in Westminster-Hall on Ascension-Day, Midsummer-Day, and the 2d of February.

The Exchequer opens eight Days before any Term begins, except Trinity, before which it opens but four Days.

Note, The first and last Days of every Term are the Days of Appearance.

## *A CATALOGUE of the Most Reverend, Right Reverend, and Reverend, the Archbishops, Bishops and Deans, exercising Ecclesiastical Jurisdiction in England, 1802.*

<i>Archbishops.</i>	<i>Deans' Names.</i>	<i>Names of the Sees.</i>
Dr. John Moore	Dr. Thomas Powys	Canterbury
Dr. Wm. Markham	Dr. John Fountayne	York
<i>Bishops.</i>		
Dr. Beilby Porteus	Bp. of Lincoln	London
Hon. Shute Barrington	Bp. of Litchfield & Cov.	Durham
Hon. Dr. Brownl. North	Dr. Newton Ogle	Winchester
Dr. Charles Moss	Dr. George Wm. Lukin	Bath and Wells
Hon. Dr. James Yorke	Dr. William Pearce	Ely
Dr. Richard Hurd	Ho. St. Andrew St. John	Worcester
Dr. John Butler	Dr. Nat. Wetherell	Hereford
Hon. Dr. Ja. Cornwallis	Dr. Baptist Proby	Litchfield and Coventry
Dr. Lewis Bagot	Mr. W. D. Shipley	St. Asaph
Dr. Richard Watfon	Mr. Sam. Gale, <i>Pres.</i>	Llandaff
Dr. George Pretyma	Sir Richard Kaye, Bart.	Lincoln
Dr. John Douglas	Dr. John Ekins	Salisbury
Dr. William Cleaver	Dr. Thomas Lloyd	Bangor
Dr. Sam. Horsley	Dr. Thomas Dampier	Rocheſter
Dr. Richard Beadon	Dr. John Luxmore	Glouceſter
Dr. E. Venables Vernon	Dr. Isaac Milner	Carlisle
Dr. C. Manners Sutton	Dr. Joſeph Turner	Norwich
Dr. Spencer Madan	Dr. Thomas Kipling	Peterborough
Dr. Reginald Courtenay	Dr. Charles Harward	Exeter
Dr. F. H. W. Cornwall	Dr. C. P. Layard	Bristol
Dr. John Buckner	Mr. Combe Millar	Chicheſter
Dr. John Randolph	Dr. Cyril Jackſon	Oxford
Dr. Henry Wm. Majendie	Dr. George Cotton	Cheſter
Lord George Murray	Mr. F. Wollaſton, <i>Pres.</i>	St. David's
	Bp. of Rocheſter	Wexminſter
	Bp. of Norwich	Windſor
Dr. Claud Crigan		Sodor and Man

## *The Names of the Learned Judges in the Law.*

Right Hon. John Lord Eldon,	Lord High Chancellor of Great Britain.
Right Hon. Sir W. Grant, Knt.	Maſter of the Rolls.
Sir Edward Law, Knt.	Attorney General.
Hon. Spencer Percival,	Solicitor General.
II. In the { Rt. Hon. Lord Kenyon, L. C. J.	Sir Soulden Lawrence, Knt.
K. Bench. { Sir N. Groſe, Knt.	Sir Simon Le Blanc, Knt.
III. In the { Rt. Hon. Lord Alvanley, L. C. J.	Sir Giles Rooke, Knt.
Co. Pleas. { John Heath, Eſq;	Sir Alan Chambers, Knt.
V. In the { Sir A. McDonald, Knt. L. C. B.	Sir Alex. Thompson, Knt.
Exchequer. { Sir Beau. Hotham, Knt.	Sir Robert Graham, Knt.

A TABLE shewing the Moon's Southing for Farmers and others that breed Cattle; but men and others that sail on the Waters.

D	Jan. h m	Feb. h m	Mar. h m	April h m	May h m	June h m	M D
1	9 m 0	10 m 44	9 m 29	11 m 1	11 m 25	0 a 50	1
2	10 1	11 48	10 28	11 50	0 a 17	1 46	2
3	11 6	0 a 46	11 24	0 a 40	1 11	2 38	3
4	0 a 13	1 39	0 a 16	1 31	2 7	3 28	4
5	1 17	2 29	1 7	2 24	3 3	4 14	5
6	2 16	3 17	1 56	3 19	3 57	4 57	6
7	3 10	4 5	2 46	4 14	4 49	5 38	7
8	3 59	4 53	3 37	5 9	5 37	6 17	8
9	4 46	5 43	4 29	6 2	6 22	6 57	9
10	5 32	6 34	5 23	6 52	7 4	7 38	10
11	6 17	7 27	6 17	7 39	7 45	8 21	11
12	7 4	8 19	7 10	8 22	8 25	9 8	12
13	7 53	9 11	8 1	9 4	9 5	10 0	13
14	8 44	10 1	8 49	9 45	9 48	10 58	14
15	9 36	10 48	9 35	10 25	10 33	morn	15
16	10 28	11 32	10 18	11 7	11 23	0 0	16
17	11 19	morn	10 59	11 51	morn	1 3	17
18	morn	0 15	11 40	morn	0 17	2 6	18
19	0 8	0 55	morn	0 38	1 16	3 5	19
20	0 54	1 35	0 21	1 29	2 18	3 59	20
21	1 37	2 15	1 2	2 24	3 20	4 50	21
22	2 18	2 57	1 46	3 23	4 20	5 38	22
23	2 58	3 42	2 34	4 24	5 16	6 25	23
24	3 37	4 30	3 26	5 25	6 8	7 11	24
25	4 17	5 23	4 22	6 23	6 57	8 0	25
26	5 0	6 21	5 21	7 18	7 44	8 50	26
27	5 46	7 23	6 23	8 10	8 31	9 43	27
28	6 36	8 26	7 24	8 59	9 19	10 37	28
29	7 33		8 22	9 47	10 8	11 32	29
30	8 34		9 18	10 36	11 0	0 a 26	30
31	9 40		10 10		11 55		31

1 the Months of the Year, very necessary for all  
pecially and more worthy of Notice to Sea-

M D	July h m	August h m	Sept. h m	O. h m	Nov. h m	Dec. h m	M D
1	1 a 16	2 a 5	2 a 50	3 a 20	5 a 12	5 a 42	1
2	2 4	2 44	3 34	4 15	6 7	6 31	2
3	2 48	3 23	4 22	5 13	7 0	7 18	3
4	3 29	4 3	5 15	6 13	7 51	8 5	4
5	4 8	4 46	6 12	7 12	8 40	8 55	5
6	4 47	5 32	7 13	8 9	9 29	9 47	6
7	5 27	6 23	8 14	9 3	10 19	10 42	7
8	6 8	7 19	9 15	9 56	11 11	11 39	8
9	6 53	8 19	10 13	10 47	morn.	morn	9
10	7 42	9 22	11 9	11 38	0 6	0 37	10
11	8 36	10 26	morn	morn	1 4	1 34	11
12	9 35	11 26	0 1	0 30	2 2	2 27	12
13	10 39	morn	0 53	1 25	3 1	3 16	13
14	11 43	0 24	1 45	2 21	3 56	4 1	14
15	morn	1 18	2 37	3 19	4 47	4 44	15
16	0 45	2 9	3 32	4 17	5 34	5 23	16
17	1 43	2 59	4 27	5 13	6 18	6 2	17
18	2 38	3 49	5 24	6 6	6 59	6 41	18
19	3 28	4 40	6 20	6 55	7 38	7 21	19
20	4 17	5 33	7 13	7 40	8 18	8 3	20
21	5 4	6 28	8 4	8 23	8 57	8 50	21
22	5 53	7 23	8 52	9 3	9 38	9 41	22
23	6 43	8 17	9 36	9 42	10 23	10 37	23
24	7 35	9 9	10 18	10 22	11 12	11 36	24
25	8 29	9 59	10 58	11 3	0 a 5	0 a 37	25
26	9 23	10 45	11 37	11 46	1 2	1 36	26
27	10 17	11 29	0 a 17	0 a 32	2 1	2 33	27
28	11 9	0 a 10	0 59	1 22	3 1	3 26	28
29	11 57	0 49	1 42	2 16	3 58	4 16	29
30	0 a 43	1 28	2 29	3 14	4 52	5 3	30
	1 25	2 8		4 12		5 50	31



A TABLE shewing the Moon's Southing for Farmers and others that breed Cattle, but men and others that sail on the Waters.

D	Jan. h m	Feb. h m	Mar. h m	April h m	May h m	June h m	M D
1	9 m 0	10 m 44	9 m 29	11 m 1	11 m 25	0 a 50	1
2	10 1	11 48	10 28	11 50	0 a 17	1 46	2
3	11 6	0 a 46	11 24	0 a 40	1 11	2 38	3
4	0 a 13	1 39	0 a 16	1 31	2 7	3 28	4
5	1 17	2 29	1 7	2 24	3 3	4 14	5
6	2 16	3 17	1 56	3 19	3 57	4 57	6
7	3 10	4 5	2 46	4 14	4 49	5 38	7
8	3 59	4 53	3 37	5 9	5 37	6 17	8
9	4 46	5 43	4 29	6 2	6 22	6 57	9
10	5 32	6 34	5 23	6 52	7 4	7 38	10
11	6 17	7 27	6 17	7 39	7 45	8 21	11
12	7 4	8 19	7 10	8 22	8 25	9 8	12
13	7 53	9 11	8 1	9 4	9 5	10 0	13
14	8 44	10 1	8 49	9 45	9 48	10 58	14
15	9 36	10 48	9 35	10 25	10 33	morn	15
16	10 28	11 32	10 18	11 7	11 23	0	16
17	11 19	morn	10 59	11 51	morn	1 3	17
18	morn	0 15	11 40	morn	0 17	2 6	18
19	0 8	0 55	morn	0 38	1 16	3 5	19
20	0 54	1 35	0 21	1 29	2 18	3 59	20
21	1 37	2 15	1 2	2 24	3 20	4 50	21
22	2 18	2 57	1 46	3 23	4 20	5 38	22
23	2 58	3 42	2 34	4 24	5 16	6 25	23
24	3 37	4 30	3 26	5 25	6 8	7 11	24
25	4 17	5 23	4 22	6 23	6 57	8 0	25
26	5 0	6 21	5 21	7 18	7 44	8 50	26
27	5 46	7 23	6 23	8 10	8 31	9 43	27
28	6 36	8 26	7 24	8 59	9 19	10 37	28
29	7 33		8 22	9 47	10 8	11 32	29
30	8 34		9 18	10 36	11 0	0 a 26	30
31	9 40		10 10		11 55		31

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M D	July h m	August h m	Sept. h m	O. h m	Nov. h m	Dec. h m	M D
1	1 a 16	2 a 5	2 a 50	3 a 20	5 a 12	5 a 42	1
2	2 4	2 44	3 34	4 15	6 7	6 31	2
3	2 48	3 23	4 22	5 13	7 0	7 18	3
4	3 29	4 3	5 15	6 13	7 51	8 5	4
5	4 8	4 46	6 12	7 12	8 40	8 55	5
6	4 47	5 32	7 13	8 9	9 29	9 47	6
7	5 27	6 23	8 14	9 - 3	10 19	10 42	7
8	6 8	7 19	9 15	9 56	11 11	11 39	8
9	6 53	8 19	10 13	10 47	morn.	morn	9
10	7 42	9 22	11 9	11 38	0 6	0 37	10
11	8 36	10 26	morn	morn	1 4	1 34	11
12	9 35	11 26	0 1	0 30	2 2	2 27	12
13	10 39	morn	0 53	1 25	3 1	3 16	13
14	11 43	0 24	1 45	2 21	3 56	4 1	14
15	morn	1 18	2 37	3 19	4 47	4 44	15
16	0 45	2 9	3 32	4 17	5 34	5 23	16
17	1 43	2 59	4 27	5 13	6 18	6 2	17
18	2 38	3 49	5 24	6 6	6 59	6 41	18
19	3 28	4 40	6 20	6 55	7 38	7 21	19
20	4 17	5 33	7 13	7 40	8 18	8 3	20
21	5 4	6 28	8 4	8 23	8 57	8 50	21
22	5 53	7 23	8 52	9 3	9 38	9 41	22
23	6 43	8 17	9 36	9 42	10 23	10 37	23
24	7 35	9 9	10 18	10 22	11 12	11 36	24
25	8 29	9 59	10 58	11 3	0 a 5	0 a 37	25
26	9 23	10 45	11 37	11 46	1 2	1 36	26
27	10 17	11 29	0 a 17	0 a 32	2 1	2 33	27
28	11 9	0 a 10	0 59	1 22	3 1	3 26	28
29	11 57	0 49	1 42	2 16	3 58	4 16	29
30	0 a 43	1 28	2 29	3 14	4 52	5 3	30
	1 25	2 8		4 12		5 50	31

# 10 FEBRUARY xxviii Days.

M	h	u
D	mp	mp
1	6	3
6	5	3
11	5	2
16	5	1
21	4	1
26	4	0

New Moon the 2d day, at 7 in the evening.

First Quarter the 9th day, at 2 in the afternoon.

Full Moon the 17th day, at 5 in the afternoon.

Last Quarter the 25th day, at 2 in the afternoon.

M	W	Remarkable	☉	D lon-	D rises	♂	♀	☿	Mut. Aspects
D	D	Days, &c.	=	gitude	& sets	h	=	=	and Weather.
1	M		12	23 <sup>h</sup> 50	7 m 12	12	1	15	February be-
2	T	Pur. Candl.d.	13	9 <sup>m</sup> 7	sets	13	2	17	gins pretty
3	W	Blase	14	24 23	5 a 41	13	4	19	fine.
4	T		15	9 <sup>h</sup> 30	7 15	14	5	21	
5	F	Agatha	16	24 17	8 42	15	6	22	
6	S		17	8 <sup>h</sup> 29	10 7	16	7	24	
7	C	5 S. af. Epip.	18	22 35	11 31	16	9	26	Windy, with
8	M		19	6 8 3	morn	17	10	28	some frosts.
9	T		20	19 7	0 54	18	11	30	
10	W		21	1 11 49	2 13	19	12	2	8 14 8
11	T		22	14 14	3 29	19	14	3	
12	F	Hil. Te. ends	23	26 25	4 35	20	15	5	8 15 8
13	S		24	8 <sup>m</sup> 26	5 26	21	16	7	Unsettled
14	C	Septuages. S.	25	20 21	6 7	22	17	9	weather
15	M	Val. O. Can.	26	2 12	6 33	22	19	10	
16	T		27	14 2	6 55	23	20	12	Cloudy & dull
17	W		28	25 52	rises	24	21	14	
18	T		29	7 <sup>h</sup> 45	5 a 59	25	22	15	
19	F		30	19 42	7 14	25	24	17	8 0 14
20	S		1	1 <sup>m</sup> 46	8 25	26	25	18	Frosty and
21	C	Sexages. Sun.	2	13 59	9 40	27	26	21	more clear.
22	M		3	26 23	10 57	28	27	21	
23	T		4	9 <sup>m</sup> 2	morn	28	29	22	8 0 15 Frost
24	W	St. Mat. Pr. Ad.	5	21 59	0 18	29	30	23	8 14 8
25	T	Cam. T. d. [Fr. b.	6	5 17	1 40	30	1	24	and snow, or
26	F		7	18 58	3 2	1	2	25	
27	S		8	3 <sup>h</sup> 2	4 12	2	4	26	8 15 8 else
28	C	Quinquag. or	9	17 29	5 5	2	5	26	some very
		Shrove Sun.							cold rains.

May Years revolving long return,  
 Nor Winters pierce, nor Summers burn;  
 But Suns auspicious shine;  
 To scatter Blessings in their Round,  
 With Comforts daily to abound,  
 Both Human and Divine.

M	rises		sets		OBSERVATIONS.
	D	h m	D	h m	
1	7	26	4	34	are lately grown very familiar amongst us, from the peer to the peasant, where they help one they hurt hundreds. These liquors, from their general use at present, may be properly termed the bane of the commonwealth, and may be well supposed to have destroyed more of the king's subjects than all the wars with France and Spain, have ever to this time. This insinuating poison has not only infatuated the loose and scoundrel sort, but is also hugged by men of fashion, some of whom have been endowed with a splendid genius, and eminent virtues; and what is more surprising, many of the softer sex have been so enamoured with these liquors, that rather than be debarred of their bottle, they would chuse to part with their bed-fellow (some of them I say). <i>O monstrum horrendum!</i> that both sexes, and those of parts and education, should suffer this pleasing tyrant to insinuate itself into their societies, not minding the train of evil that lies in ambush at its heels. It is entertained at first oftentimes, under the pretence of being a remedy to palliate some grief, which hath happened; or dispel some fumes of melancholy; or mitigate some cholic fit, or hysteric disorder; and so by degrees,
2	7	25	4	35	
3	7	23	4	37	
4	7	21	4	39	
5	7	19	4	41	
6	7	18	4	42	
C 7	7	16	4	44	
8	7	14	4	46	
9	7	12	4	48	
10	7	10	4	50	
11	7	9	4	51	
12	7	7	4	53	
13	7	5	4	55	
C 7	7	3	4	57	
15	7	1	4	59	
16	6	59	5	1	
17	6	57	5	3	
18	6	55	5	5	
19	6	53	5	7	
20	6	52	5	8	
C 6	6	50	5	10	
22	6	48	5	12	
23	6	46	5	14	
24	6	44	5	16	
25	6	42	5	18	
26	6	40	5	20	
27	6	38	5	22	
C 6	6	36	5	24	

New Moon the 4th day, at 5 in the morning,  
 First Quarter the 11th day, at 6 in the morning.  
 Full Moon the 19th day, at 11 in the morning.  
 Last Quarter the 26th day, at 11 at night.

1	4	30
6	3	29
11	3	28
16	2	28
21	2	27
26	2	27

M	W	Remarkable	☉	☽	Longi-	Rises	☿	♀	♂	Mut. Aspects
D	D	Days, &c.	☾	☾	tude	& sets.	☾	☾	☾	and Weather
1	M	David	10	2	16	5 m 4	3	6	27	March begins stormy.
2	T	Shr. Tu. Chad	11	17	16	6 8	4	7	27	
3	W	Ann. Wednes.	12	2	21	6 26	5	9	27	
4	T	☉ eclipsed, invis.	13	17	23	sets	5	10	27	
5	F		14	2	12	7 a 37	6	11	27	Moderate weather now about.
6	S		15	16	41	9 4	7	12	27	
7	M	1 S. in Lent	16	0	47	10 32	8	14	26	
8	T	[Perpetua]	17	14	25	11 58	8	15	25	
9	W	Ember Week	18	27	37	morn	9	16	25	Brisk winds, ☉ ☽, ☉ ☽ ☽ and perhaps some showers of rain.
10	T		19	10	26	1 18	10	17	24	
11	F	Gregory	20	22	53	2 29	11	19	23	
12	S		21	5	5	3 28	11	20	22	
13	C	2 S. in Lent	22	17	4	4 11	12	21	21	Fair and pleasant weather even to the end.
14	M		23	28	56	4 41	13	22	20	
15	T		24	10	45	5 4	14	24	19	
16	W	St. Patrick	25	22	34	5 21	15	25	18	
17	T	Ed. K. W. S.	26	4	27	5 34	15	26	17	Fair and pleasant weather even to the end.
18	F	☉ eclipsed invis.	27	16	26	5 46	16	27	17	
19	S		28	28	33	rises	17	29	16	
20	C	3 S. in Lent	29	10	50	7 a 38	18	1	15	
21	M	[Benedict]	1	23	19	8 51	18	1	15	Frosty nights
22	T		2	6	0	10 11	19	2	14	
23	W		3	18	55	11 35	20	4	14	
24	T	Ann. or Lad. d.	4	2	5	morn	21	5	14	
25	F		5	15	29	0 58	21	6	14	Frosty nights
26	S		6	29	10	2 8	22	7	14	
27	C	Midlent Sun.	7	13	6	3 8	23	9	14	
28	M		8	27	18	3 50	24	10	14	
29	T		9	11	42	4 17	24	11	14	
30	W		10	26	17	4 37	25	12	14	
31			11	10	58	4 53	26	13	15	

T' with all well in each Degree,  
 From scepter'd George to humble me,  
 May Happiness run o'er;  
 He fill the Throne yet many a Year,  
 The Sword in Justice still to bear;  
 And I have Rhymes in Store.

M	Orises		C	sets		OBSERVATIONS.
	D	h m		h	m	
1	6	34	5	26		degrees, through the charm of liking and
2	6	32	5	28		custom, very few of its votaries ever quit its
3	6	30	5	30		company, till it has left them like <i>Meloch's</i>
4	6	28	5	32		sacrifices, viz. burnt up.—The next thing
5	6	26	5	34		I shall discourse on is tea, which is become
6	6	24	5	36		so universal in the ladies books, and others
C	6	22	5	38		of late: it is a liquor scarce so much as
8	6	20	5	40		dreamt of by our forefathers, and is pro-
9	6	18	5	42		duced from a shrub growing in <i>China</i> and
10	6	16	5	44		<i>Japan</i> , the infusion of which I may not
11	6	14	5	46		improperly call the innocent or honest
12	6	12	5	48		liquor, because it rarely here occasions the
13	6	10	5	50		contrary effects, as may too often be said
C	6	8	5	52		of some other liquors. As for tea I may
15	6	6	5	54		truly affirm it cannot well be too much
16	6	4	5	56		esteemed, especially by your tender, fine
17	6	2	5	58		constitutioned, valetudinarians and stu-
18	6	0	6	0		dents: in some points it may not corre-
19	5	58	6	2		pond with shepherds, ship-carpenters; or
20	5	56	6	4		such like robust or laborious people. Some
C	5	54	6	6		of the salubrious qualities of this liquor, be
22	5	52	6	8		it known, are as follow:—it takes off the
23	5	50	6	10		bad effects of a drinking-bout, corrects
24	5	48	6	12		acrimonious humours, and so must be good
25	5	46	6	14		for the scurvy and gouty complaints; it
26	5	44	6	16		vastly helps the sight, and strengthens the
27	5	42	6	18		memory, prevents the stone, cools the fever,
C	5	40	6	20		assists the digestion, and affords a very
29	5	39	6	21		agreeable sensation to the stomach. How-
30	5	37	6	23		ever in general it may be observed, that
31	5	36	6	25		tea

M	D	h	m	s
1	1	27		
6	1	26		
11	1	26		
16	1	26		
21	1	26		
26	1	D		

New Moon the 2d day, at 3 in the afternoon.

First Quarter the 9th day, at 12 at night.

Full Moon the 18th day, at 3 in the morning.

Last Quarter the 25th day, at 6 in the morning.

M	W	Remarkable	☉	☽ Longitude	☽ rises & sets	♂	♀	☿	Mut. Aspects and Weather		
D	D	Days, &c.	☿			☿	♀	☿			
1	T		11	25	39	5 m	8	27	15	15	8. 24 ♂
2	F		12	10	13	sets		28	16	16	Some showers
3	S	Richard	13	24	33	8 a	8	28	17	16	of rain now
4	C	5 S in Lent	14	8	36	9	35	29	18	17	about.
5	M	[Ambrose	15	22	16	11	0	30	20	18	
6	T	O. Lady-day	16	5	32	morn		1	21	19	
7	W		17	18	25	0	19	1	22	19	8 h ♂
8	T		18	0	57	1	24	2	23	20	Stormy, per-
9	F	Cam. T. ends	19	13	11	2	15	3	25	21	
10	S	Oxf. T. ends	20	25	12	2	52	4	26	22	Δ 24 ♀
11	C	Palm Sunday	21	7	5	3	17	4	27	23	haps thunder
12	M		22	18	53	3	36	5	28	24	in some places
13	T		23	0	44	3	50	6	8	26	
14	W		24	12	39	4	1	7	1	27	Δ 2 ♀
15	T	Maundy Th.	25	24	45	4	12	8	2	28	Rather cold,
16	F	Good Friday	26	7	3	4	22	8	3	29	Δ 24
17	S		27	19	35	4	33	9	5	29	else good
18	C	Easter day	28	2	23	rises		10	6	2	spring wea-
19	M	Eas. M.	29	15	26	9 a	25	11	7	3	ther.
20	T	Easter Tuesd.	30	28	45	10	50	11	8	5	
21	W		1	12	16	morn		12	9	6	Δ 2 h
22	T		2	25	59	0	9	13	11	7	
23	F	St. George	3	9	51	1	12	14	12	9	Somewhat
24	S		4	23	52	1	57	14	13	10	windy, and
25	C	Low Sunday	5	3	52	Per. M. b.		15	14	12	perhaps some
26	M		6	22	9	2	50	16	16	14	frosts.
27	T		7	6	23	3	7	17	17	15	* 2 ♀
28	W	Oxf. & Cam.	8	20	38	3	21	18	18	17	
29	T	[Term beg.	9	4	52	3	33	18	19	18	Rather stormy
30	F		10	19	1	3	46	19	21	20	

With all the Joys that Life endear,  
 May ev'ry fair one fill her Sphere,  
 As Widow, Maid, or Wife;  
 May Infancy with Care be taught,  
 With ev'ry fit Instruction fraught,  
 To shine in active Life.

M	rises		sets		OBSERVATIONS.
	D	h m	D	h m	
1	5	33	6	27	tea has different effects on different people,
2	5	31	6	29	and therefore, though it may be good for
3	5	29	6	31	some, it is sometimes hurtful to others;
C	5	27	6	33	being often injurious to such as drink of it
5	5	25	6	35	too frequently, or over liberally dose them-
6	5	23	6	37	selves. By the way see your tea be good,
7	5	21	6	39	not adulterated, and the green is usually
8	5	19	6	41	to be preferred; but your constitution is
9	5	17	6	43	the fittest arbitrator. The third part of the
10	5	15	6	45	non-naturals that comes, in order to be
C	5	13	6	47	recommended, is exercise and rest, which
12	5	11	6	49	have ever been found great preservatives of
13	5	9	6	51	our health; few equal them, except tem-
14	5	7	6	53	perance: for the wise author of Nature
15	5	5	6	55	made nothing in the universe to lie still
16	5	4	6	56	and be idle: as to the poorer sort of people
17	5	2	6	58	their labour will serve to make the greatest
C	5	0	7	0	part of their exercise, if they employ them-
19	4	58	7	2	selves as they ought; but for others, who
20	4	56	7	4	are not obliged to those ties of labour, there
21	4	54	7	6	are various kinds of exercise; primary, for
22	4	52	7	8	health; and secondary, for diversion. Some
23	4	50	7	10	few physicians have pretended to enjoin,
24	4	49	7	11	that such and such exercises contribute
C	4	47	7	13	much to help such or such particular dis-
26	4	45	7	15	eases; but what they have laid down for
27	4	43	7	17	the most part on that head is groundless,
28	4	41	7	19	and inconsistent. I would know what
29	4	40	7	20	exercise they would assign for one in the
30	4	38	7	22	gout,



M	$h$	$\pi$
D	$m$	$\Omega$
1	1	26
6	1	26
11	1	26
16	1	27
21	1	27
26	1	27

**New Moon the 2d day, at 2 in the morning.**

First Quarter the 9th day, at 7 in the evening.

**Full Moon the 17th day, at 3 in the afternoon.**

Laft Quarter the 24th day, at 11 in the morning.

New Moon the 31st day, at 1 in the afternoon.

D	D	Remarkable Days, &c.	☉	Longitude	Rises & sets.	☿	♀	♂	Mut. Aspects and Weather
1	S	St. Phil. & Ja.	11	38 0	3 m 59	20	22	22	Windy, and
2	C	S. aft. Easter	11	16 47	sets	21	23	24	some showers
3	M	Inv. of Crofs	12	0 11 16	9 a 56	21	24	25	☐ 24 ☿
4	T		13	13 27	11 14	22	25	27	☐ 24 ☿
5	W	Easter T. beg.	14	26 17	morn	23	27	29	☐ 24 ☿
6	T	John Evang.	15	8 34 49	0 11	24	28	8	of rain.
7	F	[a P. L.	16	21 3	0 55	24	29	3	
8	S		17	3 32 4	1 24	25	11	5	☐ 24 ☿
9	C	S. aft. Easter	18	14 57	1 44	26	2	7	
10	M		19	26 46	2 0	27	3	9	Rather cold,
11	T	Old May day	20	8 12 37	2 13	27	4	11	yet good
12	W		21	20 35	2 24	28	5	13	spring wea-
13	T		22	2 45	2 34	29	7	15	ther.
14	F		23	15 11	2 43	29	8	17	
15	S		24	27 56	2 55	1	9	19	
16	C	S. af. Easter	25	11 m 1	3 9	1	10	21	Brisk winds,
17	M	Prs. Wales b.	26	24 26	rises	2	11	24	[☐ 24 ☿
18	T		27	8 1 9	9 a 54	3	13	26	☐ ☐ 24, ☐ ☐ ☿
19	W	Q. Charlo. b.	28	22 7	11 3	4	14	28	☐ 24 ☿
20	T	[Dunstan	29	6 15 16	11 57	4	15	11	with some
21	F		11	20 29	morn	5	16	2	* ☐ ☿
22	S	Prs. Elizab. b.	1	4 44	0 32	6	18	5	☐ ☐ ☿
23	C	Rogation S.	2	18 58	0 57	7	19	7	showers.
24	M		3	3 7	1 14	7	20	9	
25	T		3	17 11	1 29	8	21	11	
26	W	August. Abp.	4	1 9	1 40	9	22	13	
27	T	Afc. Holy T	5	15 0	1 53	10	24	15	Fair and dry
28	F	[Ven. Bede	6	28 44	2 7	10	25	17	to the end.
29	S	K. Ch. II. ref.	7	12 19	2 21	11	26	19	
30	M	Su. af. Ascen.	8	25 42	2 41	12	27	21	* 24 ☿

May lawful Joys the Young infold,  
And Consolation cheer the Old,  
Nor Mis'ry e'er supplant;  
The Rich imprest with gen'rous Soul,  
The Poor with Thanks receive their Dole,  
To help them in their Want.

A	rises		sets		OBSERVATIONS.
	h	m	h	m	
1	4	36	7	24	
2	4	34	7	26	
3	4	33	7	27	
4	4	31	7	21	
5	4	29	7	31	
6	4	27	7	33	
7	4	26	7	34	
8	4	24	7	36	
C	4	23	7	37	
10	4	21	7	39	
11	4	19	7	41	
12	4	18	7	42	
13	4	16	7	44	
14	4	15	7	45	
15	4	13	7	47	
C	4	12	7	48	
17	4	10	7	50	
18	4	9	7	51	
19	4	8	7	52	
20	4	6	7	54	
21	4	5	7	55	
22	4	4	7	56	
C	4	2	7	58	
24	4	1	7	59	
25	4	0	8	0	
26	3	59	8	1	
27	3	58	8	2	
28	3	57	8	3	
29	3	55	8	5	
C	3	54	8	6	
31	3	53	8	7	

gout; if any exercise may be allowed the preference, it is riding on a good horse, in pleasant air, not over far at a time; for it stirs up a natural heat without weariness, and but small expence of spirits; besides he draws in a finer air than others who walk. The weak and lame may ride in coaches, or the like; and the young and healthy may chuse walking, or such exercise as their genius is most inclined to, so it be innocent: and for the time, take it some time before eating, not just after, for then the food will be hurried out of the stomach before any digestion is fitly made; so gentle walking after eating may be proper for some. Let your rule for exercise be, till your body seems to be grown bigger, fresher, and warm, and you begin to grow somewhat weary; then begin to desist, and get into some warm room, or bed, lest the circumambient air stop the perspiration, and so inflame the blood, and a pleurisy, quinsy, or cough ensue. The benefits of moderate motion or proper exercise are as follow!—It stirs up and exercises natural heat, increases and equally distributes the spirit, whereby the body and spirits are made stronger; it

M	h	u
D	m	n
1	1	28
6	2	29
11	2	29
16	3	m
21	3	1
26	3	1

First Quarter the 8th day, at 1 in the afternoon.

Full Moon the 15th day, at midnight.

Last Quarter the 22d day, at 4 in the afternoon.

New Moon the 30th day, at 1 in the morning.

M	W	Remarkable	☉	D Lon-	D rises	♂	♀	☿	Mut. Aspects
D	D	Days, &c.	II	gitude	& sets	γ	II	II	and Weather.
1	T	Nicomede	10	21 11 48	9 a 59	13	30	25	Fair and
2	W	[d.m.	11	4 28 28	10 48	14	28	27	* ♀, * 2 ♀
3	T	Ox.T.en. Ca. T	12	16 53	11 22	15	2	29	hot about
4	F	K Geo. III. b.	13	29 3	11 45	16	3	28	* ♀
5	S	D. Cumb. b.	14	Boniface	morn	16	5	3	this time.
6	C	Whit-Sund.	15	22 53	0 3	17	6	4	
7	M	Whit-Mond.	16	4 42	0 16	18	7	6	
8	T	Whit-Tuesd.	17	16 32	0 28	19	8	8	Cloudy, and
9	W	Ember Week	18	28 30	0 38	19	10	9	more cool,
10	T		19	10 41	0 48	20	11	11	♂ ♀
11	F	St. Barnabas	20	23 10	0 58	21	12	12	with some
12	S		21	6 m 1	1 10	21	13	14	flying showers.
13	C	Trinity Sund.	22	19 17	1 26	22	14	15	
14	M		23	2 4 57	1 47	23	16	16	
15	T		24	17 0	rises	24	17	18	* ☉ ♂
16	W	Oxf. Term. b.	25	1 18 22	9 a 46	24	18	19	Fair and hot
17	T	Alban. Cor. Chr.	25	15 56	10 29	25	19	20	now about.
18	F	Trin. T. b.	26	0 35	10 57	26	20	21	
19	S		27	15 12	11 15	27	22	22	
20	C	1 S. af. Trin.	28	29 41	11 32	27	23	24	
21	M	Lon. d. [Tr. Ed.]	29	14 0	11 44	28	24	25	
22	T		28	5 11	56	29	25	26	* ☉ 2
23	W		1 11 57	morn	8	27	26		Cooling gales
24	T	Nat. J. Bapt.	2 25 35	0 8	0 28	27			* ☉ ♀
25	F		3 9 8 1	0 22	1 29	28			Δ 2 ♂
26	S		4 22 15	0 40	2 29				of wind.
27	C	2 S. af. Trin.	5 5 11 17	1 5	2 1 29				Some
28	M		6 18 6	1 38	3 3 30				Δ ♀ ♂
29	T	St. Peter	7 0 34 43	2 24	4 4 0				☐ ♂ ♀
30	W		8 13 8	sets	5 5 1				showers of

May they who blooming Health enjoy,  
In Gratitude that Health employ ;

For many we deplore,  
Who are by raging Sickneſs torn,  
Who watching long for Eve or Morn ;  
O Goodneſs ! ſuch reſtore.

	☉ riſes		☉ ſets		OBSERVATIONS.
	h	m	h	m	
1	3	52	8	8	
2	3	52	8	8	it begets an appetite, opens the pores,
3	3	51	8	9	helps towards the evacuating of the excre-
4	3	50	8	10	ments, comforts nature, and is of vaſt uſe
5	3	49	8	11	to all the human frame: but mind, exer-
6	3	48	8	12	cife, when exceſſive, unmans the body,
7	3	48	8	12	waſtes, dries, wearies, and overthrows the
8	3	47	8	13	whole animal economy. As for reſt, you
9	3	46	8	14	may judge of it from what has been wrote
10	3	46	8	14	on the other head ; but above all, avoid ex-
11	3	45	8	15	ceſſive reſt, which is idleneſs, which opens
12	3	45	8	15	a door to numberleſs infirmities, as that
13	3	44	8	16	prince of phyſicians ( <i>Galen</i> ) has noted ; it
14	3	44	8	16	loſes time, dulls the mind, nourishes hu-
15	3	44	8	16	mours, clouds the brain, prevents thrift,
16	3	44	8	16	and diſpleaſes God : in ſhort, he that is
17	3	43	8	17	void of exerciſe, ſeldom abounds in hone-
18	3	43	8	17	ſteſty. The next thing that requires our
19	3	43	8	17	attention is ſleeping and watching ; when
20	3	43	8	17	we are tired with exerciſe, we require reſt
21	3	43	8	17	and ſleep. I would have offered ſome
22	3	43	8	17	præcognitas touching the phenomena of
23	3	43	8	17	ſleep ; but theſe ſheets will only allow me
24	3	43	8	17	to give a bare definition. Sleep then is an
25	3	43	8	16	interruption or ceſſation of our bodily or-
26	3	44	8	16	gans from action, and our minds from
27	3	44	8	16	real true thinking. The means by which
28	3	44	8	16	ſleep is produced, are from a plentiful af-
29	3	45	8	15	cent of the blood to the cerrical and carotid
30	3	45	8	15	

M	D	W	R
1	3	2	
6	4	3	
11	4	4	
16	5	5	
21	5	6	
26	6	7	

First Quarter the 8th day, at 5 in the morning.

Full Moon the 15th day, at 7 in the morning.

Last Quarter the 23rd day, at 10 at night.

New Moon the 29th day, at 3 in the afternoon.

M	W	Remarkable	☉	lon.	Rises	☿	♀	♂	Mut. Aspects
D	D	Days, &c.	☿	gitude	& sets	☿	♀	♂	and Weather
1	T		9	25 21	9 a 43	5	6	1	I now expect
2	F	Visitat. V. M.	10	7 24	10 3	6	7	2	some showers
3	S	Dog days be.	11	19 18	10 18	7	9	2	of rain.
4	C	3 S. aft. Trin.	12	1 7	10 29	7	10	2	
5	M	[Tr. St. Mar.	13	12 54	10 39	8	11	R	
6	T	Cam. C. O. Mid.	14	24 43	10 48	9	12	2	
7	W	Trin. T. ends	15	6 40	10 58	9	13	2	Fair and hot
8	T	[T. & Recket	16	18 50	11 9	10	15	2	about this
9	F	Cam. T. ends	16	1 18	11 24	11	16	1	time.
10	S		17	14 9	11 43	12	17	1	
11	C	4 S. aft. Trin.	18	27 27	morn	12	18	1	
12	M	Oxford Act	19	11 11	0 10	13	19	0	Brisk winds
13	T		20	25 23	0 52	14	21	0	inclining to
14	W		21	9 58	1 53	14	22	29	dryness.
15	T	Swithin	22	24 50	rises	15	23	28	
16	F		23	9 49	9 a 14	16	24	28	☿ ♀ ♀
17	S	Oxf. T. ends	24	24 48	9 32	16	25	27	Thunder.
18	C	5 S. af. Trin.	25	9 38	9 46	17	27	26	☉ ☿
19	M		26	24 13	9 59	18	28	26	Showers in
20	T	Margaret	27	8 29	10 10	19	29	25	some places,
21	W		28	22 25	10 25	19	30	24	
22	T	Mary Magd.	29	6 8	10 41	20	1	24	
23	F		30	19 19	11 4	21	3	23	Warm wea-
24	S	[St. James	1	2 19	11 34	21	4	23	ther,
25	C	6 S. af. Trin.	2	15 5	morn	22	5	22	☿ ♀ ♀ but
26	M	Anne	3	27 37	0 15	23	6	22	* ☿ ♀ some
27	T		4	9 58	1 11	23	7	22	☿ ♀ ♀
28	W		5	22 8	2 17	24	9	21	showers near
29	T		6	4 10	sets	25	10	21	the end.
30	F		7	16 4	8 a 22	25	11	21	
31	S		7	27 54	8 34	26	12	21	

May strong Industry, brown with Toil,  
Find Seasons to improve the Soil.  
Nor spoil'd by Drought nor Rain;  
And ev'ry Trade, or Craft, or Art,  
An honest Competence impart,  
Their Charges to maintain.

M	rites		C	lets		OBSERVATIONS.
	D	h m		n	m	
1	3	46	8	14		tid arteries in the brain, which distend, and by that pressure on the organs of sensation, their action is stopped and suspended, and so sleep is gently introduced; though to explain this more fully, we cannot compass at this time, or consider the admirable mechanism of nature upon the principle of self-preservation by the use of sleep; for when the animal actions of the day have by degrees abated, and impaired the several springs and organs of the body and functions of the brain, then sleep, as a remedy, is appointed to unbend the over-strained springs, and lay in a fresh stock of spirits for the ensuing day, and to dispose of the nutritive blood for supplying the decayed parts. These rules are to be observed, in order to preserve health. Go to bed two or three hours after supper, or make no supper, as Dr. Bernard does advise:
2	3	46	8	14		
3	3	47	8	13		
C	3	47	8	13		
5	3	48	8	12		
6	3	49	8	11		
7	3	49	8	11		
8	3	50	8	10		
9	3	51	8	9		
10	3	52	8	8		
C	3	53	8	7		
12	3	54	8	6		
13	3	55	8	5		
14	3	56	8	4		
15	3	57	8	3		
16	3	58	8	2		
17	3	59	8	1		
C	4	0	8	0		
19	4	17		59		Let supper little be, and light, But none makes always the best night.
20	4	37		57		
21	4	47		56		As for those who will have suppers, they should use some little walking within door before they go to bed, for the evening air is seldom good. Indulge not sleep in the day, unless at a time when the past night has
22	4	57		55		
23	4	77		53		
24	4	87		52		
C	4	97		51		
26	4	117		49		
27	4	127		48		
28	4	147		46		
29	4	157		45		
30	4	177		43		
31	4	187		42		

M	h	u
D	mo	no
1	7	8
6	7	9
11	8	10
16	9	11
21	9	12
26	10	13

First Quarter the 6th day, at 7 in the evening.

Full Moon the 13th day, at 3 in the afternoon.

Last Quarter the 20th day, at 7 in the morning.

New Moon the 28th day, at 7 in the morning.

M	W	Remarkable	☉	D lon-	D rises	♂	♀	☿	Mut. Aspects
D	D	Days, &c.	Ω	gitude	& sets	8	mo	no	and Weather
1	C	7 S. aft. Trin.	8	9 <sup>mo</sup> 40	8 a 45	27	13	22	Fine, with some gentle showers.
2	M	[Lam. day]	9	21 27	8 56	27	15	22	
3	T		10	3 <sup>h</sup> 17	9 5	28	16	22	
4	W		11	15 15	9 15	29	17	23	
5	T		12	27 25	9 28	29	18	24	
6	F	Transfigurat.	13	9 <sup>mo</sup> 51	9 4 <sup>h</sup>	Π	19	24	Hot with drying winds.
7	S	Prs. Am. b.	14	Nat. of J.	10 7	1	20	25	
8	C	8 S. aft. Trin.	15	5 <sup>h</sup> 52	10 41	1	22	26	
9	M		16	19 32	11 31	2	23	27	
10	T	Lawrence	17	3 <sup>h</sup> 40	morn	2	24	28	
11	W	Ds. Br. b. Dog	18	18 14	0 42	3	25	Ω	Now wind and rain
12	T	Pr. Wa. b [d. e]	19	3 <sup>h</sup> 9	2 13	4	26	1	
13	F	Old Lammis	20	18 17	rises	4	28	2	
14	S		21	3 <sup>h</sup> 29	7 a 52	5	29	4	
15	C	9 S. Tr. Assum.	22	18 35	8 6	6	△	6	
16	M	D. York b.	23	3 <sup>h</sup> 27	8 18	6	1	7	* ♂ ♀ may be expected. □ ♀ ♂ Hot with thunder showers.
17	T		24	17 58	8 32	7	2	9	
18	W		25	28 6	8 50	7	3	11	
19	T		26	15 48	9 10	8	5	13	
20	F		27	29 6	9 39	9	6	14	
21	S	D. of Clar. b.	28	12 Π 3	10 17	9	7	16	△ ♂ ♀ Fine weather. ☉ eclipsed, vis. □ ♀ ♂ for the most part.
22	C	10 S. af. Trin.	29	24 40	11 8	9	8	18	
23	M		mo	7 <sup>h</sup> 1	morn	10	9	20	
24	T	St. Bartholo.	1	19 11	0 13	11	10	22	
25	W		2	1 <sup>h</sup> 10	1 23	12	12	24	
26	T		2	13 3	2 37	12	13	26	☉ eclipsed, vis. □ ♀ ♂ for the most part.
27	F		3	24 52	3 51	13	14	28	
28	S	St. Augustine	4	6 <sup>mo</sup> 39	sets	13	15	mo	
29	C	11 S. Tr. Beh.	5	18 27	7 a 8	14	16	2	
30	M	[J. Bapt.	6	0 <sup>h</sup> 17	7 18	15	17	4	
31	T		7	12 12	7 29	15	19	6	

May Plenty from her copious Horn,  
 Supply our threaten'd Isles with Corn;  
 Which may our Wants sustain;  
 And Fields where hostile Banners play'd,  
 With sickl'd Reapers be array'd,  
 To cut the ripen'd grain.

M D	rises		sets		OBSERVATIONS.
	h	m	h	m	
C	4	20	7	40	has allowed none; such sleep is apt to fill the head with crude humours, instead of what ought to be there. Sleep not in foul rooms, that have noxious steams in them, ill fumes, or newly plastered, or wide crevices that let in too much of the ambient air; for every human body has a constant steam flying from it, like the steam of a boiling pot, though in general not perceivable, but only with proper glasses, or sometimes in cold weather, by throwing open the bed clothes. What a vast damage a little cool air may do us, especially when we are fall'hot, is clearly proved by the famous Boerhaave in his Elements of Chemistry. I have quoted this remark, because so few believe it, till they feel its bad effects. As to quantity of sleep any one takes, I cannot see how it can be well adjusted; people must learn it from their complexions; for a melancholy man may sleep longer than one that is of a sanguine temper; old men longer than young; those who use study, or are hurried with business, or have acute diseases, longer than those who do not, or are in health. Six or seven hours is enough
2	4	21	7	39	
3	4	23	7	37	
4	4	24	7	36	
5	4	26	7	34	
6	4	28	7	32	
7	4	29	7	31	
C	4	31	7	29	
9	4	33	7	27	
10	4	35	7	25	
11	4	36	7	24	
12	4	38	7	22	
13	4	40	7	20	
14	4	42	7	18	
C	4	43	7	17	
16	4	45	7	15	
17	4	47	7	13	
18	4	49	7	11	
19	4	50	7	10	
20	4	52	7	8	
21	4	54	7	6	
C	4	56	7	4	
23	4	58	7	2	
24	5	0	7	0	
25	5	2	6	58	
26	5	3	6	57	
27	5	5	6	55	
28	5	7	6	53	
C	5	9	6	51	
30	5	11	6	49	
31	5	13	6	47	



First Quarter the 5th day, at 7 in the morning.

Full Moon the 11th day, at 11 at night.

Last Quarter the 18th day, at 8 in the evening.

New Moon the 26th day, at midnight.

1	11	15
6	11	16
11	12	17
16	12	18
21	13	19
26	14	20

	W	Remarkable Days, &c.	☉	Longitude.	☽ rises & sets	♂	♀	☿	Mut. Aspects and Weather
D	D		u	g		u	u	u	
1	W	Giles	8	24 <sup>u</sup> 15	7 a 42	16	20	8	♂ ☉ ♀
2	T	Lond. bt. 1666	9	6m30	7 55	16	21	10	♂ ♀ ♀
3	F		10	18 58	8 15	17	22	12	♂ ☉ ♀
4	S		11	1 f 45	8 44	18	23	14	Windy, with
5	C	12 S. af. Trin.	12	14 53	9 25	18	24	16	♂ ♀ ♀
6	M		13	28 25	10 26	19	25	17	frequent
7	T	Enurchus	14	12 <sup>u</sup> 21	11 45	19	27	19	☉ ♂ ♀
8	W	Nat. V. M.	15	26 43	morn	20	28	21	showers of rain
9	T		16	11 <sup>u</sup> 27	1 18	20	29	23	♂ ☉ ♀
10	F		17	26 27	2 53	21	m	25	
11	S		18	11 <sup>u</sup> 37	rises	21	1	26	☉ eclipsed, vis.
12	C	13 S. af. Trin.	19	26 47	6 a 32	22	2	28	Weather is
13	M		20	11 <sup>u</sup> 47	6 46	22	3	u	pretty fine
14	T	Holy Cross	21	26 30	7 2	23	5	1	now.
15	W	Ember Week	22	10 8 49	7 22	23	6	3	
16	T		23	24 41	7 46	24	7	5	Some
17	F	Lambert	24	8 u 6	8 22	25	8	6	showers, and
18	S		25	21 6	9 10	25	9	8	☉ ☉ ♂
19	C	14 S. af. Trin.	26	3 <sup>u</sup> 42	10 10	26	10	10	perhaps
20	M		27	16 0	11 20	26	11	11	thunder
21	T	St. Matthew	28	28 4	morn	27	12	13	* ♀ ♀
22	W	K. Geo. III. cr.	29	9 58	0 34	27	13	14	
23	T		u	21 47	1 48	28	15	16	in some
24	F		1	3 <sup>u</sup> 33	3 1	28	16	18	places.
25	S		2	15 21	4 12	28	17	19	
26	C	15 S. Trin. O.	3	27 13	sets	29	18	21	Fine and
27	M	[Holy Ro. Cyp.	4	9 <sup>u</sup> 10	5 a 47	29	19	22	pleasant
28	T	[Wirt. b.	5	21 16	6 0	29	20	24	* ♀ ♀
29	W	St. Mic. Ds.	6	3m31	6 13	0	21	25	weather now
30	T	Jerome	7	15 58	6 31	1	22	26	about.

May meek-ey'd Peace smile on our shore,  
 That Weapons drank with human Gore,  
 May in the Plough-share end;  
 That Nations hence forget to fight,  
 And all unanimous unite;  
 And be each other's Friend.

M	©	files	©	lets	OBSERVATIONS.
D	n	m	h	m	
1	5	15	6	45	
2	5	17	6	43	enough for young healthy people. The
3	5	19	6	41	vast benefits of sleep may be perceived
4	5	21	6	39	from what hath been already said; and the
C	5	23	6	37	ill effects of it, when it is immoderate;
6	5	24	6	36	for then it dulls the senses, damps the
7	5	26	6	34	spirits, loosens the joints, engenders chro-
8	5	28	6	32	nic diseases by enervating the solids, over-
9	5	30	6	30	stocks the fluids, and is a shoeing-horn to
10	5	32	6	28	scurvy and cachectical disorders: so I shall
11	5	34	6	26	close this part with a piece of poetry.
C	5	36	6	24	
13	5	38	6	22	Sleep, justly dos'd, is nature's cordial friend,
14	5	40	6	20	It sooths our cares, and all our pains suspend;
15	5	42	6	18	But where 'tis wanting, or exceeds a mean,
16	5	44	6	16	Folly, or pain, or madness, intervene.
17	5	46	6	14	
18	5	48	6	12	The last of the non-naturals that comes
C	5	50	6	10	in order to be handled, is that of the
20	5	52	6	8	passions, which have abundantly greater
21	5	54	6	6	influence on health, and long life, than
22	5	56	6	4	most people in the least conceive of. Un-
23	5	58	6	2	der these concise notes, I shall not pretend
24	6	0	6	0	to lay down any metaphysical scheme, as
25	6	2	5	58	to enquire, where the soul resides? or by
C	6	3	5	57	what medium the spirits unite the soul
27	6	5	5	55	and body? or to examine, by what me-
28	6	7	5	53	chanism the passions in their different
29	6	9	5	51	modes have the power to impress pleasure
30	6	11	5	49	or pain. As to the two first points, they
					cannot

M	h	u
D	h	u
1	14	21
6	15	22
11	15	23
16	16	24
21	17	25
26	17	26

First Quarter the 4th day, at 5 in the afternoon.

Full Moon the 11th day, at 8 in the morning.

Last Quarter the 18th day, at 12 at noon.

New Moon the 26th day, at 5 in the afternoon.

W	Remarkable Days, &c.	☉	Longitude	Rises & sets	♂	♀	☿	Mut. Aspects and Weather
1 F	Remigius	8	28 m 37	6 a 56	1	23	28	Fair and
2 S		9	11 f 30	7 32	2	24	29	pleasant
3 C	16 S. af. Tr.	10	24 39	8 26	2	26	m	
4 M		11	8 h 6	9 37	3	27	2	△ ♂ ♀
5 T		12	21 53	11 1	3	28	3	weather now
6 W	Faith	13	5 m 59	morn	3	29	5	about.
7 T		13	20 23	0 32	4	2	6	
8 F		14	5 h 4	2 4	4	1	7	
9 S	St. Denys	15	19 56	3 39	5	2	9	Cloudy and
10 C	17 S. Trin. Ox. & [Ca: T. b.]	16	4 v 53	5 2	5	3	10	dull for a
11 M	O. Mic.	17	19 47	rises	5	4	11	few days.
12 T		18	4 8 28	5 a 32	6	5	12	
13 W	Transl. K. Ed.	19	18 51	5 55	6	6	13	
14 T		20	2 h 49	6 26	6	7	15	
15 F		21	16 21	7 9	7	8	16	♂ h ♀
16 S	[Etheldreda]	22	29 26	8 7	7	9	17	Wind and
17 C	18 S. af. Trin.	23	12 26 6	9 14	7	10	18	rain now
18 M	St. Luk	24	24 25	10 28	8	11	19	about.
19 T		25	6 29	11 41	8	12	20	
20 W		26	18 22	morn	8	13	21	
21 T		27	0 m 9	0 54	9	14	21	Rough
22 F		28	11 56	2 6	9	15	22	winds and
23 S		29	23 46	3 16	9	16	23	□ h ♀
24 C	19 S. af. Trin.	m	5 a 44	4 27	9	17	24	
25 M	Ge. 3 ac.	1	17 52	5 39	10	18	24	showers.
26 T	K. Geo. 3 pro.	2	0 m 11	sets	10	19	24	
27 W		3	12 44	4 a 43	10	20	25	
28 T	St. Simon and	4	25 29	5 7	10	21	25	Stormy wea-
29 F	[Jude]	5	8 f 27	5 40	11	22	25	ther.
30 S		6	21 37	6 28	11	23	25	
31 C	20 S. af. Trin.	7	4 v 59	7 33	11	24	25	

May Commerce spread the swelling Sails,  
 Before auspicious breezy Gales,  
 And ne'er meet with abuse;  
 Thus join the Lands, the Seas divide,  
 And waft their Products o'er the Tide,  
 For one another's Use.

M	rises		sets		OBSERVATIONS.
D	h	m	a	m	
	16	13	5	47	
	26	15	5	45	cannot be asserted in the affirmative, and
C	6	17	5	43	the last require a full treatise to explain
	46	19	5	41	it; so I omit it here, allowing it for an
	56	21	5	39	undeniable truth, that the passions have a
	66	23	5	37	vast effect on the organical parts of our
	76	25	5	35	bodies, as I shall observe in general, that
	86	27	5	33	whenever reason, which is the sovereign
	96	29	5	31	conductor of the passions, conjoins matter
C	6	31	5	29	and thought; whenever, I say, she fails to
11	6	33	5	27	assert her just prerogative, so as to suspend,
12	6	35	5	25	or give it up to any of the passions, there
13	5	37	5	23	is soon a way open to various diseases, as
14	6	39	5	21	folly, madness, and death itself very often
15	6	41	5	19	as daily experience clearly evinces. As
16	6	43	5	17	for instance, joy, which is the most grate-
C	6	44	5	16	ful of all the passions, and if moderate,
18	6	46	5	14	the most conducive to health; but where
19	6	48	5	12	it is in excess, reason flags, it immediately
20	6	50	5	10	dissipates the spirits, dissolves the vital
21	6	52	5	8	powers, and sometimes causes death, as
22	6	54	5	6	we have examples enough to confirm by it.
23	6	56	5	4	As for love, which I might first have
C	6	58	5	2	noted, it being the parent of joy, if it be
25	7	0	5	0	where the object is attainable, it enli-
26	7	-	2	4	veneth all the faculties of the soul, and
27	7	3	4	57	begets a pleasing charm on all the sensa-
28	7	5	4	55	tions;
29	7	7	4	53	
30	7	9	4	51	
C	7	11	4	49	

M	h	u
D	m	mp
	1	18
	6	18
	11	18
	16	19
	21	19
	26	20
		1

First Quarter the 3d day, at 1 in the morning.

Full Moon the 9th day, at 7 in the evening.

Last Quarter the 17th day, at 8 in the morning.

New Moon the 23th day, at 8 in the morning.

M	W	Remarkable	☉	D lon-	Dries	♂	♀	☿	Mut. Aspects
D	D	Days, &c.	m	gitude	& set.	☾	♂	♀	and Weather
1	M	All Saints	8	18 1/2 32	8 a 54	11	25	24	
2	T	D. Kent b. All So	9	2 17	10 19	11	24	24	Rough cold
3	W	Prs. Sophia b.	10	16 14	11 48	12	27	24	winds.
4	T	K. Wm. land.	11	0 22	morn	12	27	22	Δ ☉ ♀, ☉ ♀
5	F	Powder Plot	12	14 42	1 16	12	28	21	
6	S	Mic. T. b. Leo.	13	29 9	2 43	12	29	20	Wet cold
7	C	21 S. af. Trin.	14	13 42	4 10	12	29	19	* ♀ ☿
8	M	Prs. Au. So. b.	15	28 14	5 37	12	1	18	☉ ☿
9	T	Lord Mayor's d.	16	12 8 39	rises	12	2	16	weather for
10	W		17	26 50	4 24	12	3	15	some days.
11	T	St. Martin	18	10 11 43	5 0	12	3	14	* ☉ ♀
12	F	Cam. T. d. m.	19	24 13	5 54	12	4	12	Δ ☉ ☿
13	S	Britius	20	7 19	6 59	12	5	11	
14	C	22 S. af. Trin.	21	20 1	8 11	12	6	11	Cold winds
15	M	Machutus	22	2 23	9 25	12	6	10	still blow,
16	T		23	14 28	10 40	12	7	9	and the wea-
17	W	Hugh, Ep. of	24	26 22	11 51	12	8	9	ther is
18	T	[Lincoln	25	8 10	morn	12	9	D	* ♀ ☿
19	F		26	19 57	1 0	12	9	9	rather stormy.
20	S	Edmund	28	1 50	2 11	12	10	9	
21	C	23 S. af. Trin.	29	13 53	3 21	12	10	10	
22	M	Cecilia	1	26 9	4 33	12	11	10	
23	T	Clem. Ol. Mart.	1	8 41	5 49	12	12	11	* ☉ ♀, ☉ ♀
24	W		2	21 31	7 8	12	12	12	Δ ☉ ☿
25	T	Du. of Glo. b.	3	4 38	lets	12	13	13	Sleet or some
26	F	[Catharine	4	18 0	4 a 17	12	13	14	cold rains.
27	S		5	1 35	5 15	12	14	15	
28	C	Advent Sun.	6	15 21	6 36	1	14	16	
29	M	[Mic. T. e.	7	29 13	8 2	11	15	17	Frosty.
30	T	St. Andrew	8	13 10	9 31	11	15	18	

In Age and Death, ah! solemn thought,  
 Too frequently they come unsought,  
 May Faith and Hope be strong.  
 Protected by redeeming Love,  
 Wing hence, unto the Courts above,  
 To join the ransom'd Throng.

M	☉	rites	☉	lets	OBSERVATIONS.
D	a	m	h	m	
17	13	4	47		<p>tions; but where it is vehemently set on unfit objects, or despairs of the object loved, it produces sadness, marrs all the faculties, and in time destroys all the human frame. Anger, which is accounted by some the most violent of all those passions, is the soonest to be discovered. Other passions have some gradations; but this flasheth like gunpowder, blows up all in a moment, and, as it were, in an instant metamorphoses a man into an <i>African</i> savage; likewise makes his blood boil with such fervour, that his very arteries are ready to burst; and the tide of his blood is carried away with such violent irregular surges to the organs of the brain, that reason is struck blind, memory banished, madness seems to have taken possession of the whole capitol, and all the nervous system made to shake. All other passions have their peculiar modifications to raise or depress the animal fluids; but they are all included under pleasure or pain. Those already named I take to be the most violent and acute; the others being more chronical passions; such as shame, fear, envy, hatred, sorrow, or such like.</p>
27	14	4	46		
37	16	4	44		
47	18	4	42		
57	20	4	40		
67	21	4	39		
C7	23	4	37		
87	25	4	35		
97	26	4	34		
107	28	4	32		
117	30	4	30		
127	32	4	28		
137	33	4	27		
C7	35	4	25		
157	36	4	24		
167	38	4	22		
177	39	4	21		
187	41	4	19		
197	42	4	18		
207	44	4	16		
C7	45	4	15		
227	46	4	14		
237	48	4	12		
247	49	4	11		
257	50	4	10		
267	52	4	8		
277	53	4	7		
C7	54	4	6		
297	55	4	5		
307	56	4	4		

# DECEMBER xxxi Days.

First Quarter the 2d day, at 9 in the morning.  
Full Moon the 9th day, at 8 in the morning.  
Last Quarter the 17th day, at 6 in the morning.  
New Moon the 24th day, at 10 at night.  
First Quarter the 31st day, at 5 in the evening.

M	h	u
D	h	u
1	20	2
6	20	3
11	20	3
16	20	4
21	21	5
26	21	5

W	Remarkable Days; &c.	☉	☽ longitude	☽ rises & sets	♂ ☿	♀ ♀	♂ ♀	Mut. Aspects and Weather
W		9	27	11	10 a	57	11 15 20	* ♀ ☽
F		10	11	X 15	morn	10	16 21	Frosty and
F		11	25	21	0	21	10 16 22	cold at the
S		12	9	28	1	43	10 16 24	beginning.
C	2 S. in Adv.	13	23	36	3	8	10 17 25	
M	Nicholas	14	7	40	4	36	9 17 26	
F		15	21	39	6	3	9 17 28	
W	Concep. V.M.	16	5	27	7	26	9 17 29	
F	*	17	19	1	rises	8	17 2	Sleet or some
F	*	18	2	17	4 a	30	8 17 2	* ☽ ☽
S		19	15	15	5	40	8 17 3	showers.
C	3 S. in Adv.	20	27	53	6	56	7 17 5	☐ ☉ ☽
F	Lucy	21	10	13	8	10	7 17 7	
W		22	22	18	9	25	7 17 8	
F	Ember Week	23	4	12	10	35	6 17 10	
F	Ca. T.e. O.Sapi.	24	16	1	11	44	6 17 11	Frosty, and
W	Oxf. T. ends	25	27	49	morn	6	16 13	perhaps some
F		26	9	42	0	54	5 16 15	snow.
S	4 S. in Adv.	27	21	46	2	4	5 16 16	
F		28	4	6	3	17	4 15 17	☐ ☽ ☽
W	St. Thomas.	29	16	45	4	34	4 15 19	Weather ra-
F	[Short day]	30	29	45	5	53	4 14 20	☐ ☽ ☽ ther
W		1	13	8	7	12	3 14 23	open.
F		2	26	51	sets	3	14 24	☽ ☉ ☽
W	Christmasd.	3	10	51	3 a	56	2 13 25	Frosty, and
F	1 S. af. Chr. St.	4	25	4	5	30	2 13 27	
W	St. Jon. [Step]	5	9	24	7	1	2 12 28	☐ ☉ ☽
F	Innocents	6	23	46	8	30	1 11 29	☐ ☽ ☽. 8 ☽ ☽
W		7	8	5	9	57	1 11 1	perhaps snow
F		8	22	19	11	22	1 10 3	
W	Silvester	9	6	27	morn	0	10 4	☽ * ♀

May Spring expand with charming Green,  
 The Summer bloom with hopeful Scene,  
 And fruitful Autumn cheer;  
 May Winter's Snow, or keener Frost,  
 Improve the Ground, nor ought be lost,  
 But fructify the Year.

M	©	rises	©	sets	
D	h	m	h	m	OBSERVATIONS.
1	7	57	4	3	
2	7	58	4	2	like. As some of the other passions fire
3	7	59	4	1	the animal frame, so grief and sorrow
4	8	0	4	0	freeze the blood, cloud the animal spirits,
C	8	1	3	59	and, if a person harbours it long, it balks
6	8	2	3	58	all the efforts of nature; also sinks the
7	8	3	3	57	person in a sea of horror and despair, and
8	8	3	3	57	his looks will soon proclaim it, as a divine
9	8	4	3	56	writer, <i>The sorrow of the world worketh</i>
10	8	4	3	56	<i>death</i> : therefore; as a conclusive summary
11	8	5	3	55	to what has been said on the non-naturals,
C	8	6	3	54	if you have any just estimate for health
13	8	6	3	54	and tranquillity of life, I could seriously
14	8	6	3	54	recommend to you carefully to breathe in
15	8	7	3	53	wholesome air, to be temperate, to avoid
16	8	7	3	53	luxury and idleness, to sleep moderate,
17	8	7	3	53	that the animal faculties might be clear
18	8	8	3	52	and vigorous, get a just and real notion
C	8	8	3	52	of things, a sound and well-established
20	8	8	3	52	judgment, a circumspect watch to avoid
21	8	8	3	52	every object that excites our passions, an
22	8	8	3	52	habitual custom of self-denial, a free and
23	8	8	3	52	full command of reason, and an adequate
24	8	8	3	52	acquaintance with religious exercise;
25	8	7	3	53	which is the only method to insure our
C	8	7	3	53	health here, and procure our happiness
27	8	7	3	53	hereafter:
28	8	6	3	54	
29	8	6	3	54	For health's true elixir, if men would find,
30	8	6	3	54	Is virtuous labour, cheerfulness of mind.
31	8	5	3	55	

like. As some of the other passions fire the animal frame, so grief and sorrow freeze the blood, cloud the animal spirits, and, if a person harbours it long, it balks all the efforts of nature; also sinks the person in a sea of horror and despair, and his looks will soon proclaim it, as a divine writer, *The sorrow of the world worketh death*: therefore, as a conclusive summary to what has been said on the non-naturals, if you have any just estimate for health and tranquillity of life, I could seriously recommend to you carefully to breathe in wholesome air, to be temperate, to avoid luxury and idleness, to sleep moderate, that the animal faculties might be clear and vigorous, get a just and real notion of things, a sound and well-established judgment, a circumspect watch to avoid every object that excites our passions, an habitual custom of self-denial, a free and full command of reason, and an adequate acquaintance with religious exercise; which is the only method to insure our health here, and procure our happiness hereafter:

For health's true elixir, if men would find,  
 Is virtuous labour, cheerfulne s of mind.



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*Speculum Anni :*  
OR,  
SEASON ON THE SEASONS.

For the YEAR of our LORD, 1802.

.....  
THE SECOND PART.  
.....

Containing variety of matter in prose and verse, part necessary to complete a performance of this kind, part collected or composed by the author, for the instruction and improvement of British youth, or of those who, in the humble vale of life, have souls superior to the opportunities given them, to improve in the various branches of science; and concluding with the kind contributions of his learned and ingenious correspondents, to whom he once more returns his sincere thanks for their favours and generous assistance in a work designed at least

“ To raise the soul by tender strokes of art,  
“ To wake the genius, and to mend the heart;  
“ To make mankind in Nature’s study bold;—  
“ Look o’er each scene, and mark what they behold.”

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The ECLIPSES of the SUN and MOON, and other  
Appearances in the Heavens, that will happen in the  
Year 1802.

IN the annual revolution of that glorious body, the *Sun*, twice will the dark body of the *Moon* interpose and hide his light; and twice will the Earth interpose between the *Sun* and *Moon*, and deprive her of a borrowed light; they happen in the following order:

The first is an Eclipse of the *Sun*, on *Thursday*, the 14th of *March*, near 5 o’clock in the morning; therefore invisible, as it happens so long before the *Sun* is risen; but had it been later, it could not have been visible here, for the *Moon*’s true latitude

latitude is south, and her parallax will make it more so, on which account, it will not be visible in any of these northern parts of the globe; but in the remote southern parts, it will be a very great Eclipse, even so as to be both total and central.

The second of these Eclipses is a partial one of the *Moon*, and invisible, upon *Friday* the 19th of *March*. The middle of this Eclipse, with respect to *London*, our metropolis, happens about 11 o'clock in the morning. This Eclipse will be visible in New Zealand, Van Dieman's Land, New Holland, and its eastern coast, called New South Wales, where Botany Bay and Port Jackson are situated; it will be visible in the Molucca Islands, those of Sunda, Sumatra, Bornea, and Philippina; the kingdom of Siam and China in the East Indies, and quite throughout the Eastern Tartary, in Japan, and Yedso. The *Moon* will appear a little more than 5 digits eclipsed on her north side.

The third is an Eclipse of the *Sun*, on *Saturday* the 28th of *August*, in the morning, and if the air prove clear, will be visible with us from *sunrise* to the End of the Eclipse; the Beginning cannot be seen here, as that happens before the *Sun* rises, and the Middle or greatest Obscuration is at 19 min. past 5 o'clock, when the *Sun* will appear about 5 Digits eclipsed; the End of the Eclipse will be at 13 min. past 6 o'clock, apparent time, for the Meridian and Latitude of *London*. The *Sun* will rise that morning eclipsed at 5 min. past 5, very near the Middle of the Eclipse, at *London*, and parts adjacent. The following Type or Delineation shews the appearance expected at *London*, and places adjacent, at the Middle of the Eclipse, and will very well serve the whole Kingdom.



The fourth and last of these Eclipses, is a partial one of the *Moon*, and if the air be clear, will be visible with us; it happens on *Saturday* night, the 11th day of *September*. At the Middle of this Eclipse, the *Moon* will be vertical on the eastern boundary of *Congo*, in *Africa*; therefore will be visible to the whole of that continent, as well as to the *Island* of *Madagascar*, and great part of the *Indian Sea*, the *West* parts of *Asia*, and all *Europe*; but the *Moon* will rise eclipsed in *South America*.

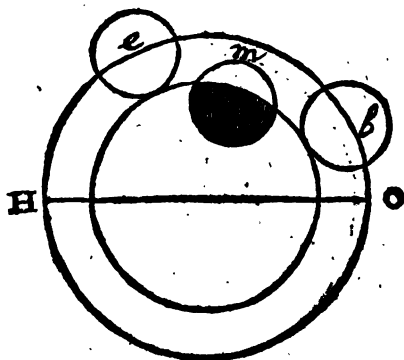
*A Synopsis of the Calculation to the Meridian of the famous City of LONDON.*

	D.	h.	m.	s.
Apparent Time of the Eclipse 8, Sept.	11	10	47	32
Place of the Sun - - - - -	♊	18°	23	36
Place of the Moon in her Orbit - - -	♋	18	23	36
Moon's North Node - - - - -	♋	11	35	46
Argument of Latitude - - - - -	♍	6	47	50
True Latitude of the ☽ N. A. - - -			37	29
Hourly Motion of ☉ - - - - -			2	26
Hourly Motion ☽ - - - - -			38	6
Hourly Motion ☽ à ☉ - - - - -			35	40
Semidiameter ☉ - - - - -			15	59
☉'s Shadow (40" added) - - - -			45	59
☽ - - - - -			16	45
Sum of their Semidiameters - - -			62	44
Moon's Latitude Subt. - - - - -			37	29
Parts deficient - - - - -			25	15
Digits eclipsed are - - - - -		9°	2	38
Scruples of Incidence - - - - -			50	18
Time from 8 to Middle Subt. - - -			5	22
Time of Incidence Subt. and add -		1 <sup>h</sup>	24	37

Hence,

Hence, in this our British Isle, the Time and manner of Appearance may be expected agreeable to the following Construction and Calculation.

## The Type.



September the 11th, at night, 1802.

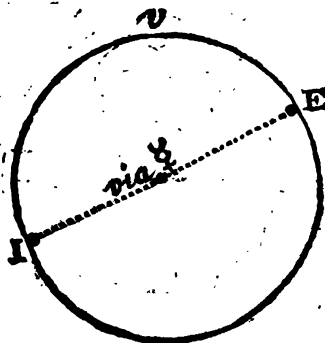
	London.			Lincoln.			
	h.	m.	s.	h.	m.	s.	
Beginning	9	17	33	9	15	53	Apparent Time
Middle	10	42	10	10	40	30	
Opposition	10	47	32	10	45	52	
End . . .	12	6	47	12	5	7	
Digits eclipsed 9° 2' 38"							

Note. *b*, the Moon at Beginning; *m*, the Moon at the Middle; *e*, the Moon at the End. H. O. an Horizontal Line.

Besides these Eclipses, there happens on *Tuesday*, the 9th of *November*, a Transit of the Planet *Mercury* over the *Sun's* Disk, and will appear like a black spot in it: it cannot be discovered by the naked eye, but may plainly be seen by the help of an ordinary Telescope. The *Sun* rises with us with *Mercury* upon his Disk, and therefore can only be seen (if the Air proves clear) from *Sun rise* to the End of the Transit, which, at *London*, will be about noon. The following Type or Delineation

tion is adapted to *London*, and shows the Track of the Planet from the Beginning to the End of the Transit, and will very well serve the whole Kingdom.

The Type.

*London.*

	h.	m.	s.	
Central Ingress of <i>Mercury</i>	6	27	54	
<i>Sun</i> rises - - - - -	7	25	0	<i>September</i> the 9th, in the morning.
Middle of the Transit - -	9	14	15	
Ecliptic Conjunction - -	9	15	37	
Central Egress - - - -	12	0	36	

Note. *V*, the *Sun*'s upper Limb; *I*, the Ingress; *E*, the Egress or going off.

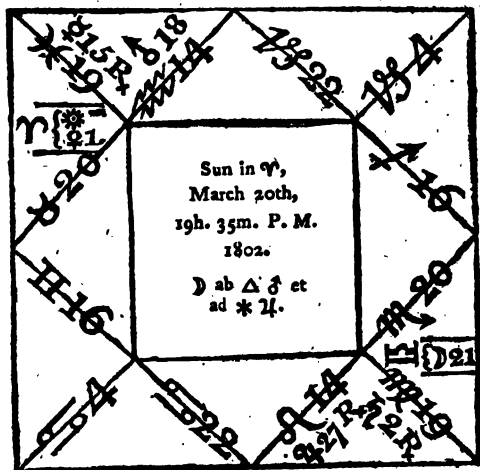
Note. On *Thursday*, the 21st of *January*, at 9 at Night; and *Wednesday*, the 17th of *February*, at 9 at Night; and also on *Tuesday*, the 13th of *April*, at half an hour past 2 in the Morning, the *Moon* will eclipse the Planet *Jupiter*, and visible with us, should the Air prove favourable. The famous Conjunction of *Jupiter* and *Saturn* happens on *Friday*, the 16th of *July*, at 7 in the Morning. These Occultations of *Jupiter* by the *Moon*, may (if the Air is clear) be seen by the naked Eye.

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*Judicium Astrologicum pro Anno Redemptionis, 1802.*


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The SPRING QUARTER, or the SUN'S INGRESS into  
ARIES.



THIS Quarter takes its beginning on *Sunday* the 21st day of *March*, at 35 min. past 7 in the Morning, at which Time the Heavens will appear as in the above Figure set for this Ingress. Here seems, from this Figure, an Appearance of Treaties offered; and frequent messengers sent from one country to another; and there is some talk of Negotiations for Peace going forward—I wish it success; but I am doubtful of a general Peace being concluded; for, at the Commencement of this Quarter, here is an 8 of ♂ and ♃; and an 8 of ♄ and ♅; and ♄ affecting ♃ in the 5th House; from all which we cannot pronounce

nounce any Thing but Broils and Contentions (as has certainly been the Case for a long Time back) between the different Powers of Europe, especially those contending in Arms. *Mars* still seems to shake his bloody Flag, therefore I should not wonder if we should hear of military Actions both by Sea and Land. It appears that *Russia* and the rest of the Northern Powers, may be at Peace with England; but the *Turks*, as well as *France* and her Connections, seems as if they were still to suffer:—I hope *England* may remain internally tranquil. The great Conjunction of *Saturn* and *Jupiter* is approaching very fast; but they have been in a Platiqve Aspect ever since the beginning of last *September*, therefore its Influences have been abroad in the World for some Time; and its baneful Effects have been severely felt both by us and other Nations: its partial Conjunction falls in the Ascendant of *France*, and so posited as to effect, in a great Degree, all those States and Kingdoms that are connected with *France*, and those Countries all, that are at War with that Nation. This Aspect stirs up Sedition, Tumults, and Discontent in the Minds of Men; it also shews miserable Complaints among the Poor in general; and also for want of Money and want of Trade, amongst the Middling Sort of People. The *Turks* seem to be spirited up to action against a particular Power, but the Stars bespeak them no good Success; they will have Work enough upon their Hands.

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**The SUN'S ENTRANCE into the tropical Sign CANCER,  
which introduces the SUMMER QUARTER!**

THIS Quarter begins on *Thurs'day*. the 22d day of *June*, when the *Sun* enters the above-mentioned tropical Sign, which I find will be at 27 min. past 5 in the morning; at the same Time 21 deg. of ♈ culminate, and the 20th deg. of ♊ ascends; the ☉ is in the 12th House, ♀ and ☿ in the 1st, ♀ and ♄ in the 3d, the Planet ♃ on the Cusp of the 11th, the ☽ in the 10th in Δ of ♀, and next applying to the Δ of ☿; thus stand the Face of the Heavens at this Ingress. *Mars* at this Time is got into ♊, his domal Dignities, and Horoscope of *England*, which denotes Resolution, and some Success to attend our National Affairs. In this Quarter falls the grand Conjunction of *Saturn* and *Jupiter*, in the earthly Sign ♋; the  
exact

exact Time will be on the 16th of *July*, at 7 in the Morning; it forebodes many Commotions and Troubles, with Desolations of every Kind. And to render this *Conjunction* the more powerful, there follows it an Eclipse of the *Sun*, in the very Sign and Degree thereof, which shews the lamentable Death, or pitiful End of some certain great Man, with a Scarcity of the Fruits of the Earth, and I am rather afraid some Disorder among Cattle—I hope our Nation and Country may be free; but as some of these Things will fall upon *France*, and we cannot expect but to share, in some Degree, in the malignant Influences of these Configurations (while we are at War), for no small trivial Matters will succeed this important *Conjunction*.

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### THE SUN'S ENTRANCE into LIBRA, which introduces the AUTUMNAL QUARTER.

THIS Quarter begins on *Thursday*, the 23d day of *September*, at 8 min. past 7 at Night, when 9 deg. of  $\gamma$  ascends, and 16 deg. of  $\nu$  is on the M. C. The  $\mu$  ab  $\square$  of  $\gamma$ , ad  $\ast$  of  $\delta$ . The two grand superior Planets, *Saturn* and *Jupiter*, are in the 6th House, within 7 deg. of each other, and both in  $\mu$ ;  $\delta$  is in  $\Pi$ , the Ascendant of *London*; and in a  $\square$  to these Planets; which shews the Affairs of this Quarter to be various, and of high Concernment to us, as well as to some other Countries. I fear some Losses and Disappointments to befall the Honourable City of *London* in its Trade and Traffic. These Planetary Configurations also denote Insurrections, popular Murmurs, and Augmentations of Wars, Tumults, and other Commotion; Fire and Robberies by Land; strange and unusual Diseases in the Body of Man: it also signifies Dissimulation in Treaties; Dulness in the Magistracy; Heresies in the Clergy and Church; with Alterations in Privileges, Laws, and Customs.

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### THE SUN'S ENTRANCE into CAPRICORN, which introduces the WINTER QUARTER.

THIS Quarter enters when the *Sun* comes to the Southern Tropic, making our Days the Shortest, which this Year happens on Wednesday, the 22d day of *December*, at 51 min. past



11 o'clock in the Morning; at this Solar Ingress, we find *Saturn* and *Jupiter* in a Square Aspect of *Mars*, which is of a rugged hostile Import. It is to be feared a general Peace is not so near at hand as might be wished; yet from other succeeding Configurations, there appears to be something coming forward, that will be brought upon the Carpet, concerning some general Propositions for a Peace: I wish it may succeed.

ANSWERS to the ENIGMAS, CHARADES, REBUSES, &c.  
in our last.

<i>Enigma</i> 1. A Line.	<i>Rebus</i> 1. Savage
Do. 2. A Rat.	Do. 2. A Bowl.
Do. 3. An Oven.	Do. 3. A—men.
Do. 4. Letter A.	<i>Charade</i> 1. Fortune.
<i>Charade</i> 2. Con-quest.	

A GENERAL ANSWER to the ENIGMAS, &c.

By Mr. DAVID LEWIS\*, of *Knarethorpe*, *Yorkshire*.

THE COMPLAINT.

My timid muse, of peace would sing,  
Exalt her voice, expand her wing,

In *Lines* sublime to soar;

But Europe shakes with hostile arms,

With Rattling spears, and dread alarms,

Or Vengeful cannons to Ar.

To Christendom's remotest bounds,

The *Savage* cry of war resounds;

The bloody *Bowl* yet fills;

In ev'ry paper that is read,

A mention is made of the dead;

And man his brother kills!

*Enig.* 1.

*Enig.* 2.

*Enig.* 3 and 4.

*Reb.* 1.

*Reb.* 2.

*Reb.* 3.

\* The favour, intitled "The Beauties of Harrogate and Knarethorpe," by this gentleman, came safe to hand.

Some nations tose'd on *Fortune's* lap,  
 Some standing firm in ruin's gap,  
 And some with *Conquest* mad:  
 The British Isles the influ'nce feel,  
 And eager grasp the winding steel;  
 While my poor muse is sad.

Cba. 1.

Cba. 2.

But hope bids gentler times arise,  
 Of halcyon days, and purer skies;  
 With brighter suns to shine:  
 The muses in such scenes delight;  
 Then, bards who one of them invite,  
 Will favour'd be by Nine.

### A GENERAL ANSWER to the ENIGMAS, &c.

By Mr. JOHN SMITH.

#### THE SAILOR'S ADIEU.

Cease those heart-heaving sighs and distress me no more; *Reb. 3.*  
 See! our sails are unfurl'd to the view,  
 And the boatswain's shrill pipe calls each sailor from shore, *En. 4.*  
 So, Poll, I must bid thee adieu.

Tho' far I steer over the ocean, my love,  
 To thee I shall soon return back;  
 Then, my girl, do not whine, for that being above, *Enig. 1 & 2.*  
 From misfortunes will shield thy dear Jack. *Cba. 1.*

If (striving for *Conquest*) with foes we engage, *Cba. 2.*  
 Or, should Beist'rous winds howl o'er the main, *Reb. 2.*  
 Thy sailor he surely will *Save* from their rage, *Reb. 1.*  
 And give thee thy lover again.

Then dispel those vain fears, for whate'er be my fate,  
 To thee I will ever be true;  
 My love neither absence nor time can abate; *Enig. 3.*  
 But, Poll, I must leave thee—adieu!

A GENERAL

## A GENERAL ANSWER to the ENIGMAS, &amp;c.

By Mr. BENJAMIN KEMP, of Farnsfield.

## ADVICE TO A YOUNG GENTLEMAN.

*Edwin*, this most important lesson learn,  
 E'er yet you good from evil can discern.  
 Your youthful steps to rectitude incline,  
 And ever follow Virtue's sacred LINE. 1 Enig.  
 Ah! shun the midnight BOWL and Rattling dice, 2 Re. 2 En.  
 And every known insidious ART of vice. 4 Enig.  
 Th's early CONQUEST, labour to procure, 2 Cba.  
 Which future peace and FORTUNE may insure; 1 Cba.  
 For conscious guilt caress'd, will, in its turn,  
 More fierce, more SAVAGE, than an OVEN burn; 1 Re. 3 Enig.  
 More horrid than the nightly screech owl's cry;  
 'This inward foe will every bliss destroy.  
 Then shun this monster, and true wisdom prize,  
 And you'll to peace and future honour rise.

A Kind of ANSWER to the ENIGMAS, CHARADES,  
and REBUSSES, by Way of a WISH.

By Mr. RICHARD EDMOND, of Fimber, Yorkshire.

I took Season's Riddles one day in my hand,  
 I perused each Line with much care;  
 But something there was which put me to a stand,  
 'Till I found what was brought from afar.  
 I wish my friend Kemp had both courage and skill,  
 To catch all the Rat's in this land;  
 And wish them Mr. Waring his Oven would fill,  
 And so roast them all at command.  
 They are *Savage* vermin, although they are small,  
 As any that's under the sun;  
 And if *A* full Conquest was made of them all,  
 I should think that great service was done.  
 If they will proceed, and destroy the whole breed,  
 Without either lot or controul,  
 Their good Fortune I'll praise, to the end of my days,  
 And drink their good health in a Bowl.

An ANSWER to the QUERY, addressed to Mr. JOHN COLES,  
of Weedon, by Weston.

*By Mr. JOHN SAVAGE, Green's Norton.*

The ark's true dimensions, as true as I'm able,  
And concise as possible, down I will table;  
Learn'd Cumberland says, 'cording to the Hebrew,  
A cubit is inches just twenty and two,  
Hence the length is five hundred and forty-sev'n feet,  
The breadth ninety-one, and two inches complete;  
The height fifty-four, and eight in hes likewise,  
Each room eighteen feet high, if equal in size.

---

An ANSWER to the QUERY, by Mr. DAVID LEWIS.

According to the Lord Bishop of Peterborough's Scripture Tables, a cubit is 21,888 inches; the Ark was in length 300 of these cubits, equal to 547 feet 2,4 inches; the breadth was 50 cubits, equal to 91 feet 2,4 inches; the height was 30 cubits, equal to 54 feet 8,64 inches. These three numbers multiplied together, gives 2730781,9008 cubic feet; but as the Ark is supposed to have a roof, rising like the deck of a ship, of a cubit high in the middle, there must be added to the above 24952,32 feet, the solid content of the roof, which makes a total of 2755734,2208 solid feet in the Ark. To find its tonnage, a cubit foot of water weighs 62,5 pounds avoirdupois, by this divide 2240 the pounds in a ton, and it will give 35,84 feet; by which we find the Ark was 76889,9 tons. Dr. Arbuthnot makes it 4172,1 tons more than the above.

True Answers were sent to the Enigmas, &c., by Mr. John Coles, Mr. John Savage, Mr. John Offer, Devize; and several others, which we have not room to insert.

## NEW ENIGMAS, &amp;c. for the Year 1802.

FIRST ENIGMA, by Mr. BENJAMIN KEMP, of *Farnsfield*.

A haggard pair of uncouth birth,  
 By blows severe first brought me forth.  
 I, offspring of the contest, fell,  
 Caught in a black and dismal cell;  
 From thence set free, by curious art,  
 I now begin to act my part.  
 While Phoenix like I am supply'd,  
 From where my ancestors have dy'd.  
 Am deem'd an universal friend,  
 And on all parties do attend.  
 Yet to restrain my wonted rage,  
 I'm pent, like Mars, in Vulcan's cage;  
 For should I once my freedom gain,  
 'Tis hard my fury to restrain.  
 My prone career admits no bounds,  
 But deals destruction, death, and wounds.  
 Until at length a deadly foe,  
 To me oppos'd, my rage lays low.  
 Conquered, I faint, grow weak and die;  
 Ingenuous bards say what am I.

---

## SECOND ENIGMA, by Mr. JOHN COLES,

Ye sons of enigmatic fame,  
 Who strange myst'ries can tell;  
 Attend, while I describe my name,  
 And myself to you reveal.  
 When I hold my gentle peaceful reign,  
 What blooming sweets abound;  
 What verdure decks each grove and plain,  
 And beauty clothes the ground.

The carol songsters of the grove,  
 In tuneful accents sing,  
 And proclaim their gratitude and love,  
 To Nature's boundless king.

In the earth sometimes you may me see,  
 To which the flocks and herds retreat,  
 With pleasure, joy, and extacy,  
 To allay their thirst and parching heat.

In glitt'ring chariots I may be found,  
 In which the great and noble ride;  
 And traverse the country around,  
 With great attendance at their side.

In some ingenious works of art,  
 I likewise do reside;  
 And with wond'rous skill act my part,  
 And all their motions guide.

In the seat of war, I too am found,  
 Where thund'ring cannons roar,  
 Where slaught'ring millions strew the ground,  
 And plains are stain'd with crimson gore.

Thus far, dear gents, to you my name,  
 In feeble verse I've shewn;  
 So hope next year, you'll it proclaim,  
 And to the world let it be known.

### The THIRD ENIGMA, by Mr. WILLIAM BOYER.

Since it is in mode for to describe one's birth,  
 Then we like most sprung from old mother earth.  
 Did I say we? yes, sure! not I,  
 'Tho' we are one combined family.  
 We, like most nations, have a king and queen,  
 To keep due order, and our court from spleen;  
 We're often comp'ny for the splendid great,  
 The fashion'd beau, and those of low estate;

We're sure not proud since we are ne'er made clean,  
 Yet always shine in white, black, red, and green;  
 We're void of courage, yet we often fight,  
 And breeding mischief is our whole delight:  
 Another hint, and then adieu ye fair,  
 We truly point the length of ev'ry year.

---

**The FOURTH ENIGMA, by Mr. THOMAS FOX, Norton.**

Dear ladies, without more ado,  
 I here present myself to you;  
 Not doubting but you will prove kind,  
 Tho' to the other sex confin'd.  
 Whether I sprung from French, or Dutch,  
 Or English heads, it means not much:  
 My qualities are so well known,  
 'Tis almost to a proverb grown;  
 That men of fortune without me,  
 Are thought of mean and low degree;  
 But men with me have some pretence,  
 To be esteem'd of consequence.  
 My shape is taper, like a rush,  
 Hangs pendent—at the end a brush:  
 With silk or satin firmly ty'd,  
 A graceful ringlet on each side;  
 Whose fragrant scent perfumes the air,  
 And captivates the lovely fair.  
 To make my name more plain appear,  
 Go search the hog-sty if I'm there.

## FIRST REBUS, by Mr. LAMBERT BOWDEN.

The greatest foe to all mankind ;  
 A heathen goddess bring to mind.  
 A priest of Bacchus next find out ;  
 What you delight in without doubt ;  
 A sort of fruit that's known full well,  
 The drink of gods, as poet's tell.  
 Lastly, be pleased to explain,  
 A king that did in Israel reign.  
 Bring down the initials, join the same,  
 A precious stone you then will name.

---

## SECOND REBUS, by Mr. EDWARD WILSON, of York.

One half of what farmers can work alone,  
 Th' half of a measure, by ev'ry one known ;  
 Connected aright to you will appear,  
 A name in these pages seen ev'ry year.

---

## FIRST CHARADE, by Poor Bob, of Whapload.

My first, you may easy behold,  
 When Grimalkin's intent on her prey ;  
 Or the Miser sits over gold,  
 To guard it by night and by day.

At night should he happen to wake,  
 To count o'er his ill gott'n pelf ;  
 My second, from his pocket he takes,  
 To it keeps it as safe as himself.

My whole, is part of the beau's pride,  
 Hangs dangling half way to his knee ;  
 I'm as often at some ladies side,  
 With my first, hung in chains you may see.

SECOND



SECOND CHARADE, by Mr. G. SIM—N, of *Thingdon*.

My first oft dims the azure sky,  
 And soars above the mountains high,  
 When pains attack the human frame;  
 Connect my whole, and you may view,  
 What numbers oft too frequent do.

## THIRD CHARADE, by Mr. JOHN SMITH.

My first's a room in taverns found;  
 My second wears a crown;  
 My whole is a discordant found,  
 And eke a market-town.

A QUERY, by Mr. JOHN SAVAGE, of *Green's Norton, Northamptonshire*.

The situation of things at the present moment, hath induced me to write the following Query, with a request for an illustration on each verse.

Did *Solomon* and *Isaiah* write the two following verses from experience or prophecy? Prov. ch. 11. v. 26. "He that withholdeth corn, the people shall curse him: but a blessing shall be upon the head of him that selleth it."—Again, *Isaiah* ch. 5. v. 8. "Woe unto them that join house to house; that lay field to field, till there be no place, that they may be placed alone in the midst of the earth."

\* \* The Author, HENRY SEASON, humbly thanks all his Contributors, and begs their Letters may be sent, as usual, directed for him, at Stationers'-Hall, LONDON (Post paid), by the middle of April at farthest, with Answers to whatever they send; otherwise they cannot be received or used. Mr. *Paulson's* Letter, of *Arnold*, near *Nottingham*, came safe to hand; as did Mr. *Lewis's* Letter of the 27th of *August*, 1800; but the latter too late to be noticed.

FINIS.

Printed for the COMPANY of STATIONERS,  
 By G. WOODFALL, No. 22, Paternoster-Row, London.

Ὀλύμπια Δώματα

OR, AN

# ALMANACK

For the YEAR of

**Our LORD GOD, 1802;**

Being the Sixth after

**BISSEXTILE, or LEAP-YEAR,**

And the Second Year of the Nineteenth Century.

And from the World's Creation, 5806.

**Wherein are Contained the Lunations, Conjunctions, Aspects, and Effects of the Planets; the Increase, Decrease, and Length of the Days and Nights; with the Rising, Southing, and Setting of the Planets and fixed Stars throughout the Year; whereby may be known the exact Hour of the Night at all Times, when either the Moon or Stars are seen.**

**Calculated according to Art, and referred to the Horizon of the ancient and renowned Borough Town of Stamford (formerly a famous University) whose Latitude is 52 Deg. 20 Min. fitting all the middle Counties of ENGLAND, and, without sensible Error, the whole Kingdom.**

*Non est e Terris mollis ad Astra Via*

By **TYCHO WING**, Philomath.

L O N D O N :

PRINTED for the COMPANY of STATIONERS,

By M. Brown, St. John's-square, Clerkenwell,

And sold by G. GREENHILL, at their Hall, near Ludgate-Street.

[Price, stitched, SEVENTEEN-PENCE.]

## Common NOTES and Moveable FEASTS.

Dominical Letter	-	C	Septuagesima Sund.	Feb. 14
Golden Number	-	17	Shrove Sunday	Feb. 28
Epa	-	26	Easter Day	April 18
Cycle of the Sun	-	19	Whit-Sunday	June 6
Roman Indiction	-	5	Trinity Sunday	June 13
Number of Direction	-	28	Advent Sunday	Nov. 28

A CATALOGUE of the Most Reverend, Right Reverend, and Reverend, the Archbishops, Bishops, and Deans, exercising Ecclesiastical Jurisdiction in England, 1802.

<i>Archbishops.</i>	<i>Deans Names.</i>	<i>Sees Names.</i>
Dr. John Moore	Dr. Tho. Powys	Canterbury
Dr. Wm. Markham	Dr. John Fountayne	York
<i>Bishops.</i>		
Dr. Beilby Porteus	Bishop Pretyman	London
Hon. Dr. S. Barrington	Bishop Cornwallis	Durham
Hon. Dr. Br. North	Dr. Newton Ogle	Winchester
Dr. Charles Moss	Dr. Geo. Wm. Lukin	Bath & Wells
Hon. Dr. James Yorke	Dr. Wm. Pearce	Ely
Dr. Richard Hurd	Dr. Arthur Onslow	Worcester
Dr. John Butler	Dr. Nat. Wetherell	Hereford
Hon. Dr. J. Cornwallis	Dr. Baptist Proby	Litchf. & Cov.
Dr. Lewis Bagot	Dr. W. D. Shipley	St. Asaph
Dr. Richard Watson	Dr. Rob. Price, Prec.	Landaff
Dr. Geo. Pretyman	Dr. Sir Rich. Kaye, Bt.	Lincoln
Dr. John Douglas	Dr. John Ekins	Salisbury
Dr. William Cleaver	Mr. John Warren	Bangor
Dr. Samuel Horsley	Dr. Thomas Dampier	Rochester
Dr. Richard Beadon	Dr. John Luxmore	Gloucester
Hon. Dr. E. V. Vernon	Dr. Isaac Milner	Carlisle
Hon. Dr. C. M. Sutton	Dr. Joseph Turner	Norwich
Dr. Spencer Madan	Dr. Tho. Kipling	Peterborough
Lord Geo. Murray	Mr. Wollaston, Prec.	St. David's
Dr. Regin. Courtenay	Dr. Charles Harward	Exeter
Dr. F. H. W. Cornwall	Dr. C. Peter Layard	Bristol
Dr. John Buckner	Mr. Combe Miller	Chichester
Dr. John Randolph	Dr. Cyril Jackson	Oxford
Dr. H. W. Majendie	Dr. George Cotton	Chester
	Bishop Horsley	Westminster
	Bishop Sutton	Windfor
Mr. Claudius Crigan		Sodor & Man

## A TABLE of TERMS and Returns for the Year 1802.

HILARY Term begins January 23, ends February 12.

Returns or Effoign Days.	Exc.	Ret.	App.	W. D.
In eight Days of St. Hilary - - - Jan. 20	21	22	23	Satur.
In fifteen Days of St. Hilary - - - 27	28	29	30	Satur.
On the Mor. of the Purif. of the Bl. V. M. Feb. 3	4	5	6	Satur.
In eight Days of the Purif. of the Bl. V. M. 9	10	11	12	Friday

EASTER Term begins May 3, ends May 31.

In fifteen Days of Easter - - - May 2	3	4	5	Wedn.
From Easter Day in three Weeks - 9	10	11	12	Wedn.
From Easter Day in one Month - 16	17	18	19	Wedn.
From Easter Day in five Weeks - 23	24	25	26	Wedn.
On the Mor. of the Ascension of the Lord 28	29	30	31	Mond.

TRINITY Term begins June 18, ends July 7.

On the Morrow of the Holy Trinity - June 14	15	16	18	Friday
In eight Days of the Holy Trinity - 20	21	22	23	Wedn.
In fifteen Days of the Holy Trinity 27	28	29	30	Wedn.
From the Day of the Holy Trinity in 3 W. July 4	5	6	7	Wedn.

MICHAELMAS Term begins November 6, ends November 28.

On the Morrow of All Souls - Nov. 3	4	5	6	Saturd.
On the Morrow of St. Martin - 12	13	14	16	Tuesd.
In eight Days of St. Martin - 18	19	20	21	Mond.
In fifteen Days of St. Martin - 25	26	27	28	Mond.

N. B. No sittings in Westminster-Hall on the Second of February, Ascension-day, and Midsummer-day.

The Exchequer opens eight Days before any Term begins, except Trinity, before which it opens but Four Days.

Note, The first and last Days of every Term, are the first and last Days of Appearance.

## The Names of the Learned JUDGES in the Law.

I. Right Hon. Lord Eldon, Lord High Chancellor of Great Britain.

Right Hon. Sir William Grant, Knt. Master of the Rolls.

II. In the { Rt. Hon. Lord Kenyon, Lord C. J. Sir Nath. Grose, Knt.  
K. Bench. } Sir Soulden Lawrence, Kt. Sir Simon Le Blanc, Knt.

III. In the { Right Hon. Lord Alvanley, L.C. J. Sir Giles Rooke, Knt.  
Co. Pleas. } John Heath, Esq. Sir Alan Chamber, Kt.

IV. In the { Sir Arch. McDonald, Knt. L. C. B. Sir Alex. Thompson, Kt.  
Exchequer. } Sir Beaumont Hotham, Knt. Sir Robert Graham, Knt.

Sir Edward Law, Knt. Attor. Gen. Hon. Spencer Percival, Solic. Gen.

## The REGAL Table.

The Year, Month, and Day, when each King and Queen began to reign, accounting the Year to be- gin January 1.			Length of each Reign.			Number of Years expired since their Reigns ended.	
Kings Names	began to reign	Y.	M.	D.	end	Kings Names	
William I.	1066 Oct. 14	20	10	26	715	William	1
William II.	1087 Sept. 9	12	10	24	702	William	2
Henry I.	1100 Aug. 2	35	3	29	667	Henry	1
Stephen	1135 Dec. 1	18	10	24	648	Stephen	
Henry H.	1154 Oct. 25	34	8	11	613	Henry	2
Richard I.	1189 July 6	9	9	0	603	Richard	1
John	1199 April 6	17	6	13	586	John	
Henry III.	1216 Oct. 19	56	0	28	530	Henry	3
Edward I.	1272 Nov. 16	34	7	21	495	Edward	1
Edward II.	1307 July 7	19	6	18	475	Edward	2
Edward III.	1327 Jan. 25	50	4	27	425	Edward	3
Richard II.	1377 June 21	22	3	8	403	Richard	2
Henry IV.	1399 Sept. 29	13	5	20	389	Henry	4
Henry V.	1413 Mar. 20	9	5	11	380	Henry	5
Henry VI.	1422 Aug. 31	38	6	4	341	Henry	6
Edward IV.	1461 Mar. 4	22	1	5	319	Edward	4
Edward V.	1483 April 9	0	2	13	319	Edward	5
Richard III.	1483 June 22	2	2	0	317	Richard	3
Henry VII.	1485 Aug. 22	23	8	0	293	Henry	7
Henry VIII.	1509 April 22	37	9	6	255	Henry	8
Edward VI.	1547 Jan. 28	6	5	8	249	Edward	6
Q. Mary I.	1553 July 6	5	4	11	244	Q. Mary	
Q. Elizabeth	1558 Nov. 17	44	4	7	195	Q. Elizabeth	
James I.	1603 Mar. 24	22	0	3	177	James	1
Charles I.	1625 Mar. 27	23	10	3	153	Charles	1
Charles II.	1649 Jan. 30	36	0	7	117	Charles	2
James II.	1685 Feb. 6	4	0	7	113	James	2
Will. 3. & M.	1689 Feb. 13	13	0	23	100	William	3
Q. Anne	1702 Mar. 8	12	4	24	88	Q. Anne	
George I.	1714 Aug. 1	12	10	10	75	K. George	1
George II.	1727 June 11	33	4	14	42	K. George	2
George III.	1760 Oct. 25	Crowned Sept. 22, 1761.					

*The Use of the following TABLE of the Moon's Southing, to find the Time of High-Water, and the Hour of the Night.*

I. To find the Time of High-Water in most Parts of  
E N G L A N D.

Take the Time of the Moon's Southing for the Day proposed, and to that add the Hours and Minutes which stand against the Place required in the following Table of Sea-Coasts, and the Sum will be the Time of High-Water at the Place required on that Day.

A Table of the Sea Coasts.	H. M.
Portsmouth, Queenborough, Southampton,	0 00
Rochester, Winchelsea, Flushing,	0 45
Downs, Gravesend, Ramkins, Guernsey,	1 30
Denbeigh, Bell-Isle, Holy-Isle, Downs-Road,	2 15
London, Tinnmouth, Whitby, Hartlepool,	3 00
Scarborough, Berwick, Flushing, Staples,	3 45
Flamborough, Humber, Bridlington-Bay,	4 30
Plymouth, Ramfay, Newcastle, Severn,	5 15
Lynn, Fosdyke, Hull, Weymouth, Dartmouth, Cross-Keys,	6 00
Boston, Start-Point, Foulness, Bristol-Key,	6 45
Bridgewater, Milford Haven, Lizard, Wintertown,	7 30
Yarmouth, Isle of Wight, the Needles,	8 15
Isle of Man, Orkney, Pool, South-Foreland,	9 00
Dover, Harwich, Orfordness, Bullein,	10 00
Rye, Solebay, Margate-Road,	11 15

II. To find the Hour of the Night by the Shadow of the  
Moon on a Sun-Dial.

1. When the Shadow falls precisely on the Hour 12, then the Time of the Moon's Southing, found in the preceding Table, is the exact Time of Night. But in other Cases,

2. If the Shadow wants of 12, see how much it wants of it; which Time, subtracted from that of the Moon's Southing leaves the Time of Night. *Note,* You must add 12 Hours to the Moon's Southing, if Need be.

3. If the Shadow has past 12, add the Time that it has past it to the Time of the Moon's Southing; the Sum will be the Time of Night required; abating 12 Hours from the Sum, if Need be.

A TABLE of the MOON'S SOUTHING, of excellent Use to

M	January		February		March		April		May		June		M			
D	h	m	h	m	h	m	h	m	h	m	h	m	D			
1	9	m	0	10	m	44	9	m	29	11	m	1	1			
2	10		1	11		48	10		28	11		50	2			
3	11		6	0	a	46	11		24	0	a	40	3			
4	0	a	13	1		39	0	a	16	1		31	4			
5	1		17	2		29	1		7	2		24	5			
6	2		16	3		17	1		56	3		19	6			
7	3		10	4		5	2		46	4		14	7			
8	3		59	4		53	3		35	5		5	8			
9	4		46	5		43	4		29	6		2	9			
10	5		32	6		34	5		23	6		52	10			
11	6		17	7		27	6		17	7		39	11			
12	7		4	8		19	7		10	8		22	12			
13	7		53	9		11	8		1	9		4	13			
14	8		44	10		1	8		49	9		45	14			
15	9		36	10		48	9		35	10		25	15			
16	10		28	11		32	10		18	11		7	16			
17	11		19	morn		10	59	11		51	morn		1	17		
18	morn		0		15	11	40	morn		0		17	2	18		
19	0		8	0		55	morn	0		38	1	16	3	19		
20	0		54	1		35	0		21	1		29	2	20		
21	1		37	2		15	1		2	2		24	3	21		
22	2		18	2		57	1		46	3		23	4	22		
23	2		58	3		42	2		34	4		24	5	23		
24	3		37	4		30	3		26	5		25	6	24		
25	4		17	5		23	4		22	6		23	6	25		
26	5		0	6		21	5		21	7		18	7	26		
27	5		48	7		27	6		23	8		10	8	27		
28	6		36	8		26	7		24	8		59	9	28		
29	7		33			8	22	9		47	10	8	11	29		
30	8		34			9	18	10		36	11	0	0	a	26	30
31	9		40			10	10			11		55				31

Spring Quarter begins - March 11d 7h 35m morning.  
 Summer Quarter begins - June 22 5 27 morning.  
 Autumn Quarter begins - Sept. 23 7 8 afternoon.  
 Winter Quarter begins - Dec. 22 11 51 morning.

find the Time of High-Water, and the Hour of the Night.

M	July		August		September		October		November		December		M
D	h	m	h	m	h	m	h	m	h	m	h	m	L
1	1	a 16	2	a 5	2	a 50	3	a 20	5	a 12	5	a 42	1
2	2	4	2	44	3	34	4	15	6	7	6	31	2
3	2	48	3	23	4	22	5	13	7	0	7	18	3
4	3	29	4	3	5	15	6	13	7	51	8	5	4
5	4	8	4	46	6	12	7	12	8	40	8	55	5
6	4	47	5	32	7	13	8	9	9	29	9	47	6
7	5	27	6	23	8	14	9	3	10	19	10	42	7
8	6	8	7	19	9	15	9	56	11	11	11	39	8
9	6	53	8	19	10	13	10	47	morn		morn		9
10	7	42	9	22	11	9	11	38	0	6	0	37	10
11	8	36	10	26	morn		morn		1	4	1	34	11
12	9	35	11	26	0	1	0	30	2	2	2	27	12
13	10	39	morn		0	53	1	25	3	1	3	16	13
14	11	43	0	24	1	45	2	21	3	56	4	1	14
15	morn		1	18	2	37	3	19	4	47	4	44	15
16	0	45	2	9	3	32	4	17	5	34	5	23	16
17	1	43	2	59	4	27	5	13	6	18	6	2	17
18	2	38	3	49	5	24	6	6	6	59	6	41	18
19	3	28	4	40	6	20	6	55	7	38	7	21	19
20	4	17	5	33	7	13	7	40	8	18	8	3	20
21	5	4	6	28	8	4	8	23	8	57	8	50	21
22	5	53	7	23	8	52	9	3	9	38	9	41	22
23	6	43	8	17	9	36	9	42	10	23	10	37	23
24	7	35	9	9	10	18	10	22	11	12	11	36	24
25	8	29	9	59	10	58	11	3	0	a 5	0	a 37	25
26	9	23	10	45	11	37	11	46	1	2	1	36	26
27	10	17	11	29	0	a 17	0	a 32	2	1	2	33	27
28	11	9	0	a 10	0	59	1	22	3	1	3	26	28
29	11	57	0	49	1	42	2	16	3	58	4	16	29
30	0	a 43	1	28	2	29	3	14	4	52	5	3	30
31	1	25	2	8			4	12			5	50	31

Venus is a Morning Star till March 17; and then an Evening Star for the rest of the Year.

Jupiter is an Evening Star till September 9; then a Morning Star for the rest of the Year.



Lunations.			M D	Jupiter rises	Venus rises
New Moon	4th day, at 8 morning		1	8 a 46	6 m 44
First Quarter	10th day, at midnight		7	8 17	6 53
Full Moon	18th day, at 10 night		13	7 49	7 3
Last Quarter	27th day, at 1 morning		19	7 21	7 7
			25	6 53	7 7

M D	W D	Holy Days, ☉ rises & sets	D's Longit.	D's Declin.	D rises & sets	Aspects and Weather
1	F	<b>Circumcision</b>	1 f 16	24 s 59	5 m 13	The year begins with frost and snow.
2	S	☉ rises 8h 4m	15 45	27 40	6 36	
3	C	2 S. aft. Chri.	0 v 39	28 27	7 52	
4	M		15 48	27 9	D sets	
5	Tu	☉ sets 3h 58m	1 m 2	23 50	5 a 15	Tuel. d: OldCb. Cold and windy, Δ h ♀, Δ 2 ♀ else not bad
6	W	<b>Epiphany</b>	16 10	18 54	6 51	
7	Th		1 X 3	12 53	8 24	
8	F	<i>Lucian</i>	15 35	6 17	9 50	
9	S	☉ rises 7h 58m	29 42	0 n 26	11 15	Δ 2 ♀ Δ h ♀ Old New Yr's d. weather.
10	C	1 S. aft. Epiph.	13 v 24	6 57	morn	
11	M	<i>Plough Monday</i>	26 44	12 58	0. 35	
12	Tu		9 8 43	18 16	1 53	
13	W	Hil: Ca. Te b.	22 25	22 38	3 14	Foggy mists now about.  Rough weather
14	Th	Oxf. T. begins	4 II 54	25 53	4 33	
15	F		17 12	27 53	5 43	
16	S	☉ sets 4h 10m	29 21	28 30	6 45	
17	C	2 S. aft. Epiph.	11 23	27 45	7 32	Snow or cold 6 ☉ ♀ rains.
18	M	<b>Q. Ch. b. day k.</b>	23 20	25 44	D rises	
19	Tu	[ <i>Prisca</i> ]	5 Ω 13	22 35	4 a 41	
20	W	<i>Fabian</i>	17 3	18 31	5 52	
21	Th	<i>Agnes</i>	28 52	13 45	7 5	Δ 2 ♂ now about. Δ h ♂
22	F	<i>Vincent</i>	10 m 42	8 27	8 15	
23	S	Hil. T. begins	22 38	2 50	9 26	
24	C	3 S. aft. Epiph.	4 a 42	2 s 57	10 38	
25	M	<b>Con. St. Paul</b>	16 58	8 43	11 52	Snow or cold 6 ☉ ♀ rains.
26	Tu		29 32	14 18	morn	
27	W	<b>Pr. Au. Fred. b.</b>	12 m 28	19 25	1 10	
28	Th	☉ rises 7h 23m	25 50	23 45	2 33	
29	F	☉ sets 4h 29m	9 f 40	26 55	3 58	
30	S	<b>K. Ch. I. mar.</b>	23 59	28 29	5 18	
31	C	4 S. aft. Epiph.	8 v 45	28 6	6 25	

M	Saturn		Jupiter		Mars		Venus	
	Longit.	Declin.	Longit.	Declin.	Longit.	Declin.	Longit.	Declin.
1	7 <sup>m</sup> 18	10 n 27	5 <sup>m</sup> 39	10 n 29	18 <sup>h</sup> 55	23 s 21	22 <sup>h</sup> 14	22 s 46
7	7 <sup>m</sup> 6	10 32	5 <sup>m</sup> 23	10 36	23 <sup>h</sup> 19	23 42	29 <sup>h</sup> 45	23 15
13	6 <sup>m</sup> 52	10 39	5 <sup>m</sup> 1	10 46	27 <sup>h</sup> 43	23 55	7 <sup>h</sup> 17	23 18
19	6 <sup>m</sup> 34	10 47	4 <sup>m</sup> 32	10 58	2 <sup>h</sup> 10	23 5	14 <sup>h</sup> 49	22 56
25	6 <sup>m</sup> 13	10 56	3 <sup>m</sup> 58	11 11	6 <sup>h</sup> 37	23 54	22 <sup>h</sup> 20	22 8

M	☉'s	☉'s	Observations
D	Longit.	Declin.	
1	10 <sup>h</sup> 27	23 s 3	
2	11 <sup>h</sup> 2	22 58	Seven stars south at 36m. past 8 at night
C 12	29	22 53	Day increased 11 minutes
4	13 <sup>h</sup> 31	22 47	
5	14 <sup>h</sup> 32	22 40	☿ in perigeo, nearest the earth
6	15 <sup>h</sup> 33	22 34	
7	16 <sup>h</sup> 34	22 26	
8	17 <sup>h</sup> 35	22 19	
9	18 <sup>h</sup> 37	22 10	Capella south 38m. past 9 at night
C 19	38	22 2	
11	20 <sup>h</sup> 39	21 53	Seven stars south at 8 at night
12	21 <sup>h</sup> 40	21 43	
13	22 <sup>h</sup> 41	21 33	Moon eclipses the star Eta, one of the
14	23 <sup>h</sup> 42	21 23	Pleiades, at 30 m. past 9 at night
15	24 <sup>h</sup> 43	21 12	Saturn rises near 8 at night
16	25 <sup>h</sup> 44	21 1	Day breaks at 49 min. past 5 o'clock
26	46	20 50	
18	27 <sup>h</sup> 47	20 38	
19	28 <sup>h</sup> 48	20 25	☿ in apogeo, farthest from the earth
20	29 <sup>h</sup> 49	20 13	Sun enters ♍ 27m. past 4 afternoon
21	0 <sup>h</sup> 50	20 0	Moon eclipses Jupiter at 9 at night
22	1 <sup>h</sup> 51	19 46	
23	2 <sup>h</sup> 52	19 32	Day increased 54m.
C 3	53	19 18	Day 8 hours 42 minutes long
25	4 <sup>h</sup> 54	19 4	
26	5 <sup>h</sup> 55	18 49	Mars rises at 6 in the morning
2	6 <sup>h</sup> 56	18 34	Mercury rises at 8 in the morning
28	7 <sup>h</sup> 57	18 18	
29	8 <sup>h</sup> 58	18 2	
30	9 <sup>h</sup> 58	17 46	Aldebaran south 32m. after 7 at night
C 10	59	17 30	

Lunations.					M	Jupiter	Venus
					D	rises	rises
New Moon	2d day, at	7 night			1	6 4 19	7 m 12
First Quarter	9th day, at	2 afternoon			7	5 51	7 2
Full Moon	17th day, at	5 afternoon			13	5 23	6 57
Last Quarter	25th day, at	2 afternoon			19	4 55	6 50
					25	4 28	6 46
W	Holy Days,	D's	D's	D. rises	Aspects and		
D	☉ rises & sets	Longit.	Declin.	& sets			
M		23 45 0	25 8 39	7 m 12	February begins		
Tu	Par. or Candl.	9 7	21 21	D sets			
W	Blase	24 23	15 36	5 a 41	with seasonable		
Th		9 30	8 59	7 15			
F	Agatha	24 17	2 0	8 42	Cold winds		
S		8 29	4 n 5	10 7			
☉	5 S. aft. Epiph.	22 35	11 20	11 31	blow, and the		
M	☉ rises 7h 14m	6 8 3	17 2	morn			
Tu		19 7	21 47	0 54	8 2 8		
W	☉ sets 4h 50m	1 11 49	25 23	2 13			
Th		14 14	27 41	3 29	weather very		
F	Hilary Ter. e.	26 25	28 37	4 35			
S		8 26	28 10	5 26	8 1 8		
☉	Septuages. Su	20 21	26 25	6 7			
M	[Valen: O. Can.	28 12	23 31	6 33	variable.		
Tu		14 2	19 38	6 53			
W	☉ rises 6h 57m	25 52	14 59	D rises	Frosty		
Th		7 45	9 46	5 a 59			
F	☉ sets 5h 7m	19 42	4 10	7 14	8 ☉ 24		
S		1 46	1 38	8 25			
☉	Sexagesima S.	13 59	7 27	9 40	and more fair.		
M	☉ rises 6h 48m	26 23	13 4	10 57			
Tu	[Ad. Fr. b.	9 2	18 16	morn	Frost and snow		
W	St. Matthi: Pr.	21 55	22 4	0 18			
Th	Ca. T. d. m.	5 17	26 13	1 40	8 2 8		
F		18 58	28 16	3 2			
S	☉ sets 5h 22m	3 2	28 35	4 12	now about.		
☉	Quin. or Shr. S.	17 29	27 0	5 5			

M	Saturn		Jupiter		Mars		Venus	
D	Longit.	Declin.	Longit.	Declin.	Longit.	Declin.	Longit.	Declin.
1	5 <sup>m</sup> 45	11 n 7	3 <sup>m</sup> 12	11 n 29	11 <sup>m</sup> 51	23 s 37	1 <sup>m</sup> 7	20 s 41
7	5 19	11 18	2 29	11 4	16 22	23 12	8 38	19 1
13	4 51	11 29	1 43	12 3	20 53	22 39	16 9	17 1
19	4 22	11 40	0 56	12 26	25 26	21 50	23 39	14 50
25	3 53	11 51	0 9	12 38	29 59	21 51	1 9	12 20

D	☉'s	☉'s	Observations	
M	Longit.	Declin.		
1	12 <sup>m</sup> 0	17 s 13	Day breaks at 30m. past 5 o'clock	
2	13 1	16 56	☽ in perigeo, and nearest the earth	
3	14 2	16 38		
4	15 3	16 20		
5	16 4	16 2		
6	17 4	15 44	Day 9 hours 28 minutes long	
C	18 5	15 26		
8	19 6	15 7	Night 14 hours 28 minutes long	
9	20 7	14 48	Days have increased 1h. 49m.	
10	21 7	14 28	Saturn rises about 6 at night	
11	22 8	14 9	Jupiter rises half past 5 at night	
12	23 9	13 49		
13	24 9	13 29		
C	25 10	13 9		
15	26 10	12 49		
16	27 11	12 28	☽ in apogeo, farthest from the earth	
17	28 11	12 7	Moon eclipses Jupiter at 9 at night	
18	29 12	11 46		
19	0 <sup>m</sup> 12	11 25	Sun enters ♋. 14m. past 7 morning	
20	1 12	11 3	Jupiter and Saturn are in opposition to the Sun, and shines gloriously all night	
C	2 13	10 42		
22	3 13	10 20		
23	4 13	9 58		
24	5 14	9 36	Mercury at his greatest elongation from the Sun as seen from the earth	
25	6 14	9 14		
26	7 14	8 52		
27	8 14	8 29	The Great Dog Star, south at 8 at night	
C	9 15	8 7		

Lunations.				M	Jupiter	Venus
				D	fets	rises
New Moon	4th day, at 5 morning			1	6m 34	6 m 40
First Quarter	11th day, at 6 morning			7	6 9	6 28
Full Moon	19th day, at 11 morning			13	5 45	6 19
Last Quarter	26th day, at 11 night			19	5 22	6 9
				25	5 1	5 58

M	W	Holy Days,	D's	D's	D rises	Aspects and
D	D	☉ rises & fets	Longit.	Declin.	& fets	Weather
1	M	<i>David</i> [ <i>Chad</i>	2 16	23 s 32	5 m 44	Stormy weather,
2	Tu	<b>Shrove Tued.</b>	17 16	18 27	6 8	
3	W	<b>Ash Wednesd.</b>	2 21	12 12	6 26	☉ eclips. invis.
4	Th		17 23	5 16	D fets	fleet or showers.
5	F	☉ rises 6h 26m	2 12	1 n 51	7 a 37	
6	S		16 41	8 43	9 4	
7	C	<b>1 Sun. in Lent</b>	0 8 47	14 58	10 32	Moderate weather
8	M	[ <i>Perpetua</i>	14 25	20 16	11 58	
9	Tu	☉ fets 5h 42m	27 37	24 24	morn	now about.
10	W	<b>Emb. Week</b>	10 II 26	27 12	1 18	
11	Th		22 53	28 34	2 29	
12	F	<i>Gregory</i>	5 5	28 30	3 28	♂ ☉ ♀, ♂ ♀ ♀
13	S		17 4	27 5	4 11	Brisk winds,
14	C	<b>2 Sun. in Lent</b>	28 56	24 28	4 41	
15	M	☉ rises 6h 6m	10 Ω 45	20 50	5 4	and stormy
16	Tu		22 34	16 22	5 21	
17	W	<i>St. Patrick</i>	4 27	11 16	5 34	weather.
18	Th	<i>Edw. K. W. S.</i>	16 26	5 43	5 46	D eclipsed invi.
19	F		28 33	0 s 5	D rises	
20	S	☉ fets 6h 4m	10 50	5 59	7 a 38	♂ ☉ ♀
21	C	<b>3 Sun. in Lent</b>	23 19	11 43	8 51	
22	M	[ <i>Benedict</i>	6 m 0	17 5	10 11	No great alteration.
23	Tu		18 55	21 47	11 35	
24	W		2 5	25 30	morn	
25	Th	<b>Annu. Ladyday</b>	15 29	27 54	0 58	
26	F		29 10	28 41	2 8	Fine and
27	S	☉ rises 5h 42m	13 6	27 40	3 8	pleasant weather
28	C	<b>4 or Midl. Sun.</b>	27 18	24 52	3 50	
29	M		11 42	20 29	4 17	to the end.
30	Tu	☉ fets 6h 23m	26 17	14 49	4 37	
31	W		10 58	8 17	4 53	

M D	Saturn		Jupiter		Mars		Venus	
	Longit.	Declin.	Longit.	Declin.	Longit.	Declin.	Longit.	Declin.
1	3 <sup>m</sup> 34	11 n 58	29 Ω 38	12 n 49	3 <sup>m</sup> 2	20 s 27	6 ♄ 9	10 s 34
7	3 6	12 9	28 53	13 4	7 37	19 23	13 38	7 46
13	2 39	12 19	28 12	13 19	12 12	18 12	21 7	4 50
19	2 13	12 28	27 34	13 32	16 48	16 55	28 35	1 50
25	1 50	12 36	27 1	13 43	21 25	15 31	6 ♀ 2	1 n 12

M D	☉'s Longit.	☉'s Declin.	Observations
1	10 ♄ 15	7 s 44	
2	11 15	7 21	Mercury stationary, as seen from the earth
3	12 15	6 58	☿ in perigeo, nearest the earth
4	13 15	6 35	Mars rises 15m past 5 in the morning
5	14 15	6 12	Mercury sets soon after 7 at night
6	15 15	5 49	
C 16	15 15	5 26	
8	17 15	5 2	
9	18 15	4 39	Day breaks 26m. past 4 o'clock
10	19 15	4 16	
11	20 15	3 52	Twilight ends 39m. past 7 o'clock
12	21 15	3 29	
13	22 14	3 5	
C 23	14 2	41	
15	24 14	2 18	☿ in apogeo, farthest from the earth
16	25 13	1 54	Days have increased 4h. 13m.
17	26 13	1 30	
18	27 12	1 7	
19	28 12	0 43	Saturn sets 36m. past 5 in the morning
20	29 11	0 19	
C 0 ♀ 1	0 n 4		Sun enters ♀ at 35m. past 7 morning
22	1 10	0 28	
23	2 10	0 52	Mars rises 44m. past 4 in the morning
24	3 9	1 15	Venus rises at 6 in the morning
25	4 9	1 39	
26	5 8	2 2	Mercury stationary, as seen from the earth
27	6 7	2 26	Mercury rises at 5 in the morning
C 7	6 2	49	
29	8 6	3 13	Twilight ends 20 m. past 8 o'clock
30	9 5	3 36	
31	10 4	3 50	☿ in perigeo, nearest to the earth

Lunations.				M D	Jupiter sets	Venus sets
New Moon	2d day, at	3 afternoon		1	4 m 35	6 a 42
First Quarter	9th day, at	midnight		7	4 13	7 4
Full Moon	18th day, at	3 morning		13	3 50	7 25
Last Quarter	25th day, at	6 morning		19	3 28	7 46
				25	3 5	8 6

M D	W D	Holy Days, Orises & sets	D's Longit.	D's Declin.	D rises & sets	Aspects and Weather
1	Th	Orises 3h 33m	25 X 39	1 s 18	5 a 8	8 ♀ ♂
2	F		10 V 13	5 n 41	6 sets	April begins
3	S	Richard [Ambr.	24 33	12 16	8 a 8	p.e.ty fine.
4	C	5 Sun. in Lent	8 X 36	18 5	9 35	
5	M		22 16	22 49	11 c	Some showers,
6	Tu	Old Lady Day	5 II 32	26 14	morn	
7	W	☉ sets 6h 39m	18 25	28 11	0 15	8 ♀ ♂
8	Th		0 57	28 37	1 24	perhaps thunder.
9	F	Cam. T. ends	13 11	27 37	2 15	
10	S	Oxf. T. ends	25 12	25 21	2 52	Δ ♀ ♀
11	C	Palm Sunday	7 Ω 5	22 0	3 17	
12	M		18 53	17 47	3 36	Good spring
13	Tu	Orises 5h 9m	0 m 44	12 52	3 50	
14	W		12 30	7 28	4 1	Δ ♀ ♀
15	Th	Maundy Thursd.	24 45	1 43	4 12	weather.
16	F	Good Friday	7 Δ 3	4 s 10	4 22	Δ ☉ ♀
17	S	☉ sets 6h 58m	19 35	10 1	4 33	
18	C	Easter Day	2 m 23	15 35	D rises	Some what
19	M	Easter Monday	15 26	20 33	9 a 25	Allege
20	Tu	Easter Tuesday	28 45	24 36	10 50	windy.
21	W		12 f 16	27 22	morn	
22	Th	Orises 4h 52m	25 59	28 32	0 9	Δ ☉ ♀
23	F	St. George	9 V 51	27 56	1 12	Cold, and perhaps
24	S		23 52	25 34	1 57	
25	C	Low S: St. Mar:	7 m 58	21 37	2 28	some frosts.
26	M	[Psa. Mary b.	22 9	16 25	2 50	
27	Tu		6 X 23	10 17	3 7	
28	W	Oxf. & Ca. T. b.	20 38	3 38	3 21	* ♂ ♀
29	Th		4 V 52	3 n 10	3 37	Some showers.
30	F	☉ sets 7h 22m	19 1	9 47	3 46	

M D	Saturn		Jupiter		Mars		Venus	
	Longit.	Declin.	Longit.	Declin.	Longit.	Declin.	Longit.	Declin.
1	♏ 26	12 n 44	♏ 30	13 n 52	♏ 48	13 s 46	♏ 44	4 n 44
7	♏ 9	12 50	♏ 10	13 59	♏ 25	12 12	♏ 10	7 42
13	♏ 55	12 54	♏ 56	14 3	♏ 2	10 33	♏ 35	10 33
19	♏ 45	12 58	♏ 49	14 4	♏ 38	8 51	♏ 8	13 16
25	♏ 38	12 59	♏ 49	14 41	♏ 15	7 7	♏ 24	15 47

M D	☉'s		☉'s	Observations
	Longit.	Declin.		
1	♏ 3	4 n 23		Days have increased 5 hours 10 min.
2	♏ 2	4 46		Saturn sets at near 5 in the morning
3	♏ 1	5 9		
C 14	c	5 32		
5	♏ 59	5 55		The Moon among the Seven stars at 10
6	♏ 58	6 17		night, and will eclipse some of them
7	♏ 57	6 40		
8	♏ 56	7 3		Mars rises 12m. past 4 morning
9	♏ 55	7 25		Mercury at his greatest elongation from
10	♏ 54	7 47		the Sun, as seen from the earth
C 20	53	8 9		
12	♏ 51	8 32		☿ in apogeo, furthest from the earth
13	♏ 50	8 53		Moon eclipses Jupiter 29m. past 2 in
14	♏ 49	9 15		the morning
15	♏ 47	9 37		
16	♏ 46	9 58		
17	♏ 44	10 19		Twilight ends 11m. past 9 at night
C 27	43	10 40		
19	♏ 41	11 1		
20	♏ 4	11 22		Sun enters 8 15m. past 8 at night
21	♏ 8 38	11 43		Day 14 hours 12m. long
22	♏ 1	12 3		Jupiter stationary, as seen from the earth
23	♏ 2	12 23		
24	♏ 3	12 43		Days have increased 6 hours 39 minute:
C 4	32	13 3		
26	♏ 5	13 22		
27	♏ 6	13 42		☿ in perigeo, nearest the earth
28	♏ 7	14 1		Saturn sets near 3 in the morning
29	♏ 8	14 20		
30	♏ 9	14 38		



Lunations.				M	Jupiter	Venus
				D	sets	sets
New Moon	2d day, at	2 morning		1	2 m 43	8 a 27
First Quarter	9th day, at	7 night		7	2 20	8 47
Full Moon	17th day, at	3 afternoon		13	1 57	9 5
Last Quarter	24th day, at	11 morning		19	1 3-	9 22
New Moon	31st day, at	1 afternoon		25	1 11	9 35

W	Holy Days,	D's	D's	D rises	Aspects and
D	Orises & sets	Longit.	Declin.	& sets	Weather
S	St. Phil. & Jam,	38 0	15 n 50	3 m 59	Cold and cloudy,
C	2 S. aft. Easter	16 47	21 0	D sets	with showers of
M	Inven. of Cross	0 II 16	24 57	9 a 56	△ 24 ♀
Tu		13 27	27 29	1 14	□ 24 ♀
W	Easter Term b.	26 17	28 28	morn	△ 24 ♀
Th	John Ev. a. P. L.	8 49	27 58	0 11	rain.
F		21 3	26 5	0 55	
S	Orises 4h 24m	3 2	23 3	1 24	□ 24 ♀
C	3 S. aft. Easter	14 57	19 5	1 44	Fine weather,
M		26 46	14 24	2 0	
Tu	Orises 7h 41m	8 m 37	9 11	2 13	though rather
W		20 35	3 35	2 24	cool.
Th	Old May day	2 45	2 s 14	2 34	
F		15 11	8 5	2 43	
S	Orises 4h 13m	27 56	13 45	2 55	Brisk winds
C	4 Sun. af. East.	11 m 1	18 58	3 9	with showers
M	Prs. Wales b.	24 26	23 22	D rises	
Tu	Orises 7h 51m	8 1	25 36	9 a 54	□ 24, 6 28, □
W	Queen Cha. b.	22 7	28 15	11 3	□ 24 ♀ [24 ♀
Th	[Dunstan	6 16	28 6	11 57	of rain.
F	Orises 4h 5m	20 29	26 6	morn	* 24 ♀
S	Prs. Eliz. born	4 44	22 26	0 32	□ 24 ♀
C	Rogation Sun.	18 58	17 28	0 57	St rmy, perhaps
M	Orises 7h 59m	3 7	11 33	1 14	thunder.
Tu		17 11	5 6	1 29	
W	Augustin Abp.	1 9	1 n 33	1 40	
Th	Ascen: H. Thu.	15 0	8 4	1 53	Fair and dry,
F	[Ven. Bede	28 44	14 9	2 7	
S	King Ch. 2 re.	12 8	19 28	2 21	a the end.
C	Sun. aft. Ascen.	25 42	23 44	2 42	* 24 ♀
M	East. Ter. ends	8 II 53	26 42	D sets	

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MAY, 1802.

I

M	Saturn		Jupiter		Mars		Venus	
	Long.	Decl.	Long.	Decl.	Long.	Decl.	Long.	Decl.
1	0 <sup>h</sup> 35	13 <sup>n</sup> 0	25 55	14 <sup>n</sup> 1	19 50	5 21	21 47	18 <sup>n</sup> 4
7	0 36	12 59	26 8	13 55	24 25	3 33	20 10	20 4
13	0 41	12 56	26 27	13 48	28 59	1 45	6 11	21 44
19	0 49	12 53	26 53	13 39	30 34	0 3	13 52	23 8
25	1 1	12 48	27 23	13 27	8 31	50	21 13	23 58

M	Sun's	Sun's
	Longit.	Declin.

## Observations

1	10 8 21	14 <sup>n</sup> 57	
C 11	19 15	15	
3 12	18 15	33	Saturn stationary, as seen from the earth, and sets soon after 2 in the morning.
4 13	16 15	50	
5 14	14 16	8	
6 15	12 16	25	
7 16	10 16	42	Mercury rises 10 min. past 4 in the morn.
8 17	8 16	58	Day break 41 min. past 1 o'clock.
C 18	6 17	14	☿ in Apogee, furthest from the earth.
10 19	4 17	30	
11 20	2 17	46	Virgin's spike south at 10 at night.
12 20	59 18	1	
13 21	57 18	17	
14 22	55 18	31	Day increased 7 hours 48 minutes.
15 23	53 18	46	Saturn sets at 2 in the morning.
C 24	51 19	0	
17 25	48 19	14	Moon eclipses a small star 32 min. past 9 at night.
18 26	46 19	27	
19 27	44 19	41	
20 28	41 19	53	Mars rises 27 min. past 2 in the morn.
21 29	39 20	6	Sun enters ♐ 47 min. past 8 at night.
22 0 <sup>h</sup> 11 37	20 18		☿ in Perigee, nearest the earth.
C 1	34 20	30	
24 2	32 20	41	Mercury rises 8 min. past 4 in morning.
25 3	29 20	53	Day 16 hours long.
26 4	27 21	3	
27 5	24 21	14	Venus shines late at night.
28 6	22 21	24	
29 7	20 21	33	Sun due east 13 min. past 7 o'clock.
C 8	17 21	43	
31 9	15 21	52	

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Lunations						M D	Jupiter sets	Venus sets
First Quarter 8th day, at 1 afternoon.						1	om 39	9 a 50
Full Moon 15th day, at midnight.						7	o 16	9 57
Last Quarter 22d day, at 4 afternoon.						13	11 a 53	10 1
New Moon 30th day, at 1 morning.						19	11 30	10 1
						25	11 7	9 59
M D	W D	Holy-Days ☉ rises & sets	Moon's Longit.	Moon's Declin.	☽ rises & sets	Aspects and Weather		
1	T	Nicomede	21 11 48	28 n 12	9 a 59			
2	W	☉ rises 3 52	4 28 28	10	10 48	* ♀, * ♀ ♀		
3	T	Ox. T. e. C. T. d.	16 53 26	41	11 22	Fair and hot		
4	F	K. Geo. 3 b.	29 3 23	59	11 45	* ♀ ♀		
5	S	D. of Cumb. b.	11 12 20	16	morn	about this		
6	C	Whit-Sund.	22 53 15	47	o 3	time.		
7	M	Whit-Mond.	4 42 10	44	o 16			
8	T	Whit-T. e. f.	16 32 5	17	o 28			
9	W	Ember Week	28 30 o s	25	o 38	Cloudy and		
10	T		10 41 6	11	o 48	♂ ♀ ♀ more		
11	F	St. Barnabas	23 10 11	51	o 58	cool, with		
12	S	☉ sets 8 15	6 m 17	11	1 10	flying showers.		
13	C	Trinity Sund.	19 17 21	54	1 26			
14	M	☉ rises 3 44	2 45 25	35	1 47			
15	T		17 o 27	49	☽ rises	* ☉ ♂		
16	W	Oxford T. be.	1 22 28	17	9 a 46	Cooling gales		
17	T	Alban. Cor. Chr.	15 56 26	48	10 29	of wind.		
18	F	Trin. T. b.	o 35 23	29	10 57			
19	S		15 12 18	41	11 15			
20	C	S. aft. Trin.	29 41 12	50	11 32			
21	M	Lon. d. [Tr. Ed.	14 0 6	22	11 44			
22	T		28 5 o n	19	11 56	* ☉ ♀		
23	W	☉ sets 8 17	11 57 6	52	morn	Fair and hot.		
24	T	Nat. J. Bapt.	25 35 12	59	o 8	* ☉ ♀		
25	F		9 8 18	25	o 22	Δ ♀ ♂		
26	S	☉ rises 3 44	22 15 22	52	o 40	Frequent show-		
27	C	S. aft. Trin.	5 17 26	6	1 5			
28	M		18 6 27	56	1 38	Δ ♀ ♂ ers		
29	T	St. Peter	o 43 28	18	2 24	□ ♂ ♀		
30	W	☉ sets 8 15	13 8 27	12	sets	at the end.		

WING.		JUNE, 1802.								19
D	Saturn		Jupiter.		Mars		Venus			
M	Long.	Decl.	Long.	Decl.	Long.	Decl.	Long.	Decl.		
1	1 <sup>m</sup> 20	12 n 40	28 <sup>Q</sup> 6	13 n 12	13 <sup>Q</sup> 18	3 n 53	29 <sup>II</sup> 46	24 n 31		
7	1 40	12 32	28 48	12 56	17 46	5 37	7 <sup>II</sup> 5	24 31		
13	2 2	12 24	29 34	12 39	22 11	7 18	14 23	24 5		
19	2 28	12 14	om <sup>25</sup>	12 21	26 35	8 55	21 40	23 15		
25	2 57	12 3	1 19	12 1	0 8 56	10 29	28 56	22 0		
D	Sun's		Sun's							
M	Longit.	Declin.	Observations							
1	10 <sup>II</sup> 12	22 n 0								
2	11 10	22 8	All day or twilight till July the 23d.							
3	12 7	22 16								
4	13 4	22 24								
5	14 2	22 31								
C	14 59	22 37	D in Apogeo, furthest from the earth.							
7	15 57	22 43								
8	16 54	22 49	Sun due east 19 min. past 7 o'clock.							
9	17 51	22 55								
10	18 49	23 0	Conjunction of Venus and Mercury, as							
11	19 46	23 4	seen from the earth.							
12	20 43	23 8								
C	21 40	23 12								
14	22 38	23 16	Moon eclipses a small star at 9 at night.							
15	23 35	23 19								
16	24 32	23 21								
17	25 29	23 23								
18	26 27	23 25	D in Perigeo, nearest to the earth.							
19	27 24	23 26								
C	28 21	23 27								
21	29 18	23 28	Mercury's greatest elong. from the Sun.							
22	om <sup>16</sup>	23 28	Sun enters om 27 min. past 5 morning.							
23	1 13	23 28								
24	2 10	23 27								
25	3 7	23 26	Saturn sets at 14 min. past 11 at night.							
26	4 5	23 24	Mars rises at 36 min. past 12 at night.							
C	5 2	23 22								
28	5 59	23 20								
29	6 56	23 17	Venus shines until 12 at night.							
30	7 53	23 14								

## Lunations

M	Jupiter	Venus
D	fets	fe s.

First Quarter 8th day, at 5 morning.

Full Moon 15th day, at 7 morning.

Last Quarter 21st day, at 10 night.

New Moon 29th day, at 3 afternoon.

1	10	44	9	2	94
7	16	21	9	45	
13	9	59	9	37	
19	9	36	9	25	
25	9	14	9	24	

M	W	Holy-Days	Moon's	Moon's	D	rises	Aspects and
D	D	☉ rises & sets	Longit.	Declin.	& sets	Weather	
1	T	☉ rises 3 46	25 21	24 n 48	9 a 43	Now expect	
2	F	Visitat. V. M.	7 24	21 20	10 3	some showers	
3	S	Dog days beg.	19 18	17 2	10 18	of rain.	
4	C	S. af. Trin.	1 7	12 6	10 29		
5	M	[Tra. S. Mart.	12 54	6 46	10 39		
6	T	Cam. Co. O. Mid.	24 43	1 10	10 48		
7	W	Trin. T. ends	6 40	4 s 31	10 58	Fair and hot	
8	T	[Tho. à Beck.	18 50	10 8	11 9	about this	
9	F	Cam. T. ends	1 18	15 31	11 24	time.	
10	S	☉ sets 8 8	14 9	20 22	11 43		
11	C	S. af. Trin.	27 27	24 24	morn		
12	M	Oxford A&T	11 11	27 12	0 10		
13	T		25 23	28 23	0 52	Brisk winds,	
14	W	☉ rises 3 56	9 58	27 38	1 53	inclining to	
15	T	Swithin	24 50	24 56	D rises		
16	F		9 49	20 27	9 14	δ h 2	
17	S	Oxf. T. ends	24 48	14 45	9 33	dryness.	
18	C	S. af. Trin.	9 38	8 13	9 46	δ ☉ 2	
19	M		24 13	1 20	9 59		
20	T	Margaret	8 29	5 n 27	10 10		
21	W	☉ sets 7 56	22 25	11 49	10 25	More hot	
22	T	Mary Magd.	6 1	17 28	10 41	but not with-	
23	F		19 19	22 8	11 4	out some	
24	S	[St. James	2 19	25 38	11 34		
25	C	S. af. Trin	15 5	27 45	morn	δ h 2	
26	M	Anne	27 37	28 26	0 15	* δ 2	
27	T		9 58	27 39	1 11	δ 4 2	
28	W	☉ rises 4 14	22 8	25 34	2 17	showers.	
29	T		4 10	22 20	D sets		
30	F	☉ sets 7 43	16 4	18 12	8 22		
31	S		27 54	13 24	8 34		

D	Saturn		Jupiter		Mars		Venus	
M	Long.	Decl.	Long.	Decl.	Long.	Decl.	Long.	Decl.
1	3 <sup>m</sup> 28	11 n 51	2 <sup>m</sup> 17	11 n 39	5 14	11 n 59	6 13	40 n 22
7	4 1	11 38	3 19	11 17	9 29	13 24	13 26	18 25
13	4 37	11 45	4 23	10 53	13 41	14 43	20 39	16 11
19	5 15	11 11	5 30	10 28	17 49	15 59	27 51	13 41
25	5 53	10 56	6 39	10 2	21 54	17 7	5 <sup>m</sup> 1	13 0

D	Sun's		Sun's		Observations
M	Longit.	Declin.	Longit.	Declin.	
1	8 <sup>m</sup> 51	23 n 10			Mercury sets at 16 min. past 9 at night.
2	9 48	23 6			
3	10 45	23 2			
C	11 42	22 57			☿ in Apogeo, furthest from the earth.
5	12 40	22 52			Mercury stationary, as seen from the earth.
6	13 37	22 46			Days decreased 12 minutes.
7	14 34	22 40			
8	15 31	22 34			
9	16 28	22 27			
10	17 26	22 20			
C	18 23	22 12			Sun east 16 min. past 7 o'clock.
12	19 20	22 4			
13	20 17	21 56			
14	21 14	21 47			Days decreased 26 minutes.
15	22 12	21 38			Conjunction of Jupiter and Saturn, as seen from the earth—Jupiter the lowest star.
16	23 9	21 29			Such a conjunction happens but once in 20 years.
17	24 6	21 19			
C	25 3	21 9			
19	26 1	20 58			
20	26 58	20 47			☿ in Perigeo, nearest the earth 16th day.
21	27 55	20 36			
22	28 52	20 25			
23	29 50	20 13			Sun enters ♋ 17 min. past 4 afternoon.
24	0 <sup>m</sup> 47	20 0			Moon amongst the 7 Stars seen after 1 in the morning.
C	1 44	19 48			
26	2 42	19 35			Venus in conjunction with Jupiter and Saturn, as seen from the earth.
27	3 39	19 22			
28	4 37	19 8			
29	5 34	18 54			Mercury stationary, as seen from the earth
30	6 31	18 40			
31	7 29	18 25			

## Lunations

M	Jupiter	Venus
D	rises	sets

First Quarter 5th day, at 7 morning.

Full Moon 11th day, at 11 night.

Last Quarter 18th day, at 8 night.

New Moon 26th day, at midnight.

1	5 m 45	7 a 54
7	5 32	7 43
13	5 18	7 31
19	5 4	7 20
25	4 49	7 11

M	W	Holy-Days	Moon's	Moon's	D rises	Aspects and
D	D	☉ rises & sets	Longit.	Declin.	& sets	Weather
1	W	Giles	24 $\Delta$ 15	12 $\circ$ 45	7 a 42	☿ ☉ ♀
2	T	Lond. bt. 1666	6 m 30	17 47	7 55	☿ ♄ ♀
3	F		18 58	22 11	8 15	☿ ☉ ♄
4	S	☉ rises 5 21	1 $\uparrow$ 45	25 39	8 44	Wind and
5	C	14 S. af. Trin.	14 53	27 52	9 25	☿ ♄ ♀
6	M		28 25	28 32	10 26	Rain may now
7	T	Enurchus	12 $\downarrow$ 21	27 26	11 45	☐ ☿ ♀
8	W	Nat. V. M.	26 43	24 31	morn	be expected.
9	T		11 $\equiv$ 27	19 56	1 18	☿ ☉ ♄
10	F	☉ sets 6 28	26 27	14 1	2 53	
11	S		11 $\times$ 37	7 13	D rises	D eclipsed, vis.
12	C	13 S. af. Trin.	26 47	0 1	6 a 32	Fine for the
13	M		11 $\nabla$ 47	7 n 7	6 44	season.
14	T	Holy Cross	26 30	13 43	7 2	
15	W	Ember Week	10 $\delta$ 49	19 24	7 22	☐ ☉ ☿
16	T	☉ rises 5 44	24 41	23 52	7 46	Some Thunder.
17	F	Lambert	8 $\Pi$ 6	6 54	8 22	* ♄ ♀
18	S		21 6	28 22	9 10	
19	C	14 S. af. Trin.	3 $\Sigma$ 42	28 19	10 10	
20	M	☉ sets 6 8	16 0	26 50	11 20	Showers now
21	T	St. Matthew	28 4	24 8	morn	about.
22	W	K. Geo. 3 cr.	9 $\Omega$ 58	20 27	0 34	
23	T		21 47	15 58	1 48	
24	F	☉ rises 6 0	3 $\Pi$ 33	10 55	3 1	Fine and
25	S		15 21	5 28	4 12	pleasant
26	C	15 S. Trin. O.	27 13	0 s 11	D sets	weather now
27	M	[Holy Ro. Cyp.	9 $\Delta$ 10	5 53	5 a 47	about.
28	T	[Wirt. b.	Q. f. 553	11 25	6 0	* ♄ ♀
29	W	St. Mic. Ds.	3 $\Pi$ 31	16 35	6 13	
30	T	St. Jerome	15 58	21 9	6 31	

# WING, SEPTEMBER, 1802. 25

D	Saturn		Jupiter		Mars		Venus	
	Long.	Decl.	Long.	Decl.	Long.	Decl.	Long.	Decl.
1	10 <sup>m</sup> 31	9 <sup>n</sup> 13	14 <sup>m</sup> 33	7 <sup>n</sup> 2	15 <sup>m</sup> 49	22 <sup>n</sup> 5	19 <sup>m</sup> 39	8 <sup>s</sup> 8
7	11 16	8 56	15 51	6 32	19 12	22 31	26 33	11 4
13	12 1	8 39	17 9	6 22	22 27	22 51	3 <sup>m</sup> 22	13 52
19	12 46	8 22	18 26	5 32	25 33	23 8	10 7	16 31
25	13 30	8 6	19 24	5 2	28 29	23 21	16 47	18 50

D	Sun's	Sun's	Observations	
M	Longit.	Declin.		
1	8 <sup>m</sup> 17	8 <sup>n</sup> 29	Sun east 7 minutes past 6 o'clock.	
2	9 15	8 7		
3	10 13	7 45		
4	11 11	7 23	Mercury sets 56 minutes past 6 at night.	
C	12 9	7 1		
6	13 8	6 38	Day breaks 19 minutes past 3 o'clock.	
7	14 6	6 16		
8	15 4	5 53		
9	16 2	5 31	Twilight ends 33 min. past 8 at night.	
10	17 1	5 8		
11	17 59	4 45	Moon eclipsed, visible.	
C	18 58	4 22	D in Perigeo, nearest to the earth.	
13	19 56	3 59		
14	20 55	3 36		
15	21 53	3 13		
16	22 52	2 50	Days decreased 4 hours 2 minutes.	
17	23 50	2 27		
18	24 49	2 4	Saturn rises 32 min. past 4 in the morn.	
C	25 47	1 40		
20	26 46	1 17		
21	27 45	0 54	Mars rises 30 min. past 9 at night.	
22	28 44	0 30		
23	29 43	0 7	Sun enters ♌ 8 min. past 7 at night.	
24	0 <sup>m</sup> 41	0 <sup>s</sup> 16	D in Apogeo, farthest from the earth.	
25	1 40	0 40	Mercury sets 26 min. past 6 at night.	
C	2 39	1 3		
27	3 38	1 27		
28	4 37	1 50	Day breaks at 11 min. past 4 o'clock.	
29	5 36	2 14		
30	6 35	2 37		



COCTOLER XII DIT

L. M. 1855				M. 1855		Venus	
				M. 1855		Venus	
First quarter moon day, at 5 a.m.				1	4m 35	7 a	1
Full moon first day, at 5 p.m.				1	4	21	6 55
Last quarter first day, at 5 a.m.				13	4	6	6 45
New moon first day, at 5 p.m.				13	3	50	6 40
				25	3	53	6 36
M. W. R. D. D. Moon's Moon's 3 rises Aspects and							
D. D. 3 rises & 3 sets Longit. Declin. & sets 1				Weather			
1	F	Remigius	28m 37 24 s 51	6 a 50	The month		
2	S		11 4 10 27	22 7 30	begins with		
3	C	150. af. Trin.	24 37 28	27 8 26			
4	C	0 rises 6 19	28 27 57	9 57	Δ 3 8		
5	T		21 53 25	37 11 1	Very fine		
6	T	Faith	5 57 21	44	morn weather.		
7	T	0 sets 5 55	10 23 16	29 0 2 32			
8	F		5 24 10	12 2 4			
9	S	St. Denys	19 50 3	16 3 39	Cloudy and		
10	C	17. 2. 1. Cr.	4 53 3 n 52	5 2	dull, and		
11	M	[Ca. T. b.	19 47 10	45 1 rises	rather cool.		
12	T	Old Mil.	4 8 28	16 56 5 a 32			
13	W	Tran. K. Ed. C.	18 51 22	3 5 55			
14	T		2 11 49 25	46 6 26	Wind and		
15	F	0 rises 6 41	16 21 27	53 7 9	δ h 8		
16	S	[E. heldreda	29 26 28	23 8 7	rain may		
17	C	18. 2. 1. Trin.	12 2 6 27	19 9 14	now be ex-		
18	M	St. Luke	24 25 24	57 10 28	pected.		
19	T		6 2 29 21	30 11 41			
20	W	0 sets 5 10	18 22 17	13 morn			
21	T		0 2 9 12	20 0 54			
22	F	0 rises 5 6	11 56 7	0 2 6	Rough and		
23	S		23 56 1	25 3 16	□ h 8		
24	C	19. 2. 1. Trin.	5 46 4 s 16	4 27	cold winds.		
25	M	Co. 2. ac. Crif.	17 52 9	53 5 39			
26	F	K. Geo. 3 pr.	om 11 15	11 1 rises			
27	W	[Jude	12 44 19	59 4 a 43			
28	F	St. Simon and	25 29 23	56 5 7	Stormy wea-		
29	F	0 sets 4 53	8 27 26	45 5 40	ther now		
30	S		21 37 28	11 6 28	about.		
31	C	20. 2. 1. Trin.	4 55 27	59 7 33			

D	Saturn		Jupiter		Mars		Venus	
M	Long	Decl.	Long.	Decl.	Long.	Decl.	Long.	Decl.
1	14 <sup>m</sup> 14	7 n 49	21 <sup>m</sup> 0	4 n 32	10 <sup>m</sup> 14	23 n 30	23 <sup>m</sup> 21	21 s 7
7	14 56	7 34	22 16	4 2	3 45	23 57	29 49	23 1
13	15 37	7 19	23 31	3 33	6 1	23 43	6 f 8	24 36
19	16 17	7 4	24 44	3 5	8 1	23 49	12 16	25 52
25	16 55	6 50	25 55	2 38	9 42	23 55	18 12	20 46

D	Sun's	Sun's	Observations					
M	Longit.	Declin.						
1	7 <sup>h</sup> 34	3 s 0						
2	8 33	3 24	Day breaks 20 min. past 4 o'clock.					
C	9 33	3 47						
4	10 32	4 10	Twilight ends 35 min. past 7 o'clock.					
5	11 31	4 34						
6	12 30	4 57						
7	13 29	5 20	Moon eclipses a small star 23 min. past 9					
8	14 29	5 43	at night.					
9	15 28	6 6	D in Perigeo, nearest to the earth.					
C	16 27	6 29	Moon eclipses a small star 34 min. past					
11	17 27	6 51	10 at night.					
12	18 26	7 14	Saturn rises 20 min. past 3 morning.					
13	19 26	7 37	Jupiter rises at 4 in the morning.					
14	20 25	7 59						
15	21 25	8 22						
16	22 24	8 44	Mars rises 48 min. past 8 at night.					
C	23 24	9 6	Mercury at his greatest elongation from					
18	24 23	9 28	the sun.					
19	25 23	9 50						
20	26 23	10 11	Venus at her greatest elongation from					
21	27 23	10 33	the sun.					
22	28 22	10 55	D in Apogeo, farthest from the earth.					
23	29 22	11 16						
C	om 22	11 37	Sun enters $\eta$ at 8 min. past 3 morning.					
25	1 22	11 58						
26	2 22	12 19	Pole-Star south near 11 at night.					
27	3 22	12 39						
28	4 22	12 59						
29	5 22	13 20	Mercury stationary, as seen from the earth.					
30	6 22	13 39						
C	7 22	13 59						

Lunations						M D	Jupiter rises	Venus sets
First Quarter 3d day, at 1 morning.						1	3 <sup>m</sup> 14	6 a 35
Full Moon 9th day, at 7 night.						7	2 57	6 33
Last Quarter 17th day, at 8 morning.						13	2 39	6 31
New Moon 25th day, at 8 morning.						19	2 20	6 29
						25	2 0	6 26
M D	W D	Holy Days ☉ rises & sets	Moon's Longit.	Moon's Declin.	D rises & sets	Aspects and Weather.		
1	M	All Saints	18 <sup>h</sup> 32	26 s 7	8 a 54	Rough cold winds.		
2	T	D. Kentb.	2 17	22 42	10 19			
3	W	Mrs. Soph. b.	16 14	17 56	11 48	☿ ☽, ☿ ♄		
4	T	K. Wm. land.	0 <sup>x</sup> 22	12 8	morn			
5	F	Powder Plot	14 42	5 37	1 16	Wet and		
6	S	Mic. T. b. Leo.	29 9	1 n 13	2 43			
7	C	21 S. aft. Tr.	13 <sup>v</sup> 42	8 2	4 10	* ♄ ♀ ☽ ☿		
8	M	Pra. Au. Go. b.	28 14	14 25	5 37			
9	T	Lord Mayor's d.	12 8	39 19	57 D rises	flabby weather.		
10	W	☉ rises 7 28	26 50	24 16	4 a 24			
11	T	St. Martin	10 11	43 27	4 5 0	* ☉ ♄ ♄ ☽ ♀		
12	F	Cam. T. d. m.	24 13	28 12	5 54			
13	S	Britius	7 <sup>h</sup> 19	27 41	6 59	Very cold winds about this time.		
14	C	22 S. af. Trin.	20 1	25 43	8 11			
15	M	Machutus	2 23	22 33	9 25	* ♀ ♀ Sleet or cold rains.		
16	T	☉ sets 4 22	14 28	18 29	10 40			
17	W	Hugh, Bp. of Lin.	26 22	13 44	11 51	* ☽ ♀ ☿ ☽ ♀		
18	T	☉ rises 7 41	8 <sup>m</sup> 10	8 32	morn			
19	F	☉ sets 4 18	19 57	3 3	1 0	* ☽ ♀ ☿ ☽ ♀		
20	S	Edmund	1 50	2 35	2 11			
21	C	23 S. af. Trin.	13 53	8 11	3 22	* ☽ ♀, ☽ ☽ ♀ ☿ ☽ ♀		
22	M	Cecilia	26 9	13 35	4 33			
23	F	Clement. Old	8 <sup>m</sup> 41	18 33	5 49	* ☽ ♀, ☽ ☽ ♀ ☿ ☽ ♀		
24	W	[Mart.	21 31	22 48	7 8			
25	T	Du. of Clo. b.	4 <sup>h</sup> 38	26 0	D sets	Winterly wea- ther.		
26	F	[Catharine	18 0	27 49	4 a 17			
27	S	☉ rises 7 53	1 <sup>h</sup> 35	28 1	5 15	Winterly wea- ther.		
28	C	Advent Sun.	15 21	26 30	6 36			
29	M	Mic. Term e.	29 13	23 21	8 2	Winterly wea- ther.		
30	T	St. Andrew	13 10	18 49	9 31			

# WING. NOVEMBER, 1802. 29

D	Saturn		Jupiter		Mars		Venus	
	Long.	Decl.	Long.	Decl.	Long.	Decl.	Long.	Decl.
1	17 35	6 n 35	27 15	2 n 7	11 23	13	24 n 4	24 47
7	18 9	6 24	28 21	1 41	12 4	24 15	24 3	27 31
13	18 39	6 13	29 24	1 17	12 28	24 29	4 53	27 20
19	19 6	6 4	0 23	0 54	12 23	24 46	9 10	26 52
25	19 30	5 56	1 19	0 33	11 48	25 7	12 44	26 10

D	Sun's		
	Longit.	Declin.	
1	8 m 22	14 s 19	Day breaks at 17 min. past 5 o'clock.
2	9 22	14 38	
3	10 23	14 57	Moon eclipses a small star at 8 at night.
4	11 23	15 16	
5	12 23	15 34	
6	13 23	15 53	☿ in Perigeo, nearest to the earth.
C 14	24 16	11	
8	15 24	16 28	
9	16 24	16 46	Transit of Mercury over the Sun, partly visible.
10	17 25	17 3	
11	18 25	17 20	Day decreased 7 hours. 34 minutes.
12	19 25	17 36	
13	20 26	17 53	
C 21	26 18	9	Twilight ends 24 min. past 6 o'clock.
15	22 27	18 24	Mars stationary, as seen from the earth.
16	23 27	18 39	
17	24 28	18 54	☿ in Apogeo, farthest from the earth.
18	25 28	19 9	Mercury stationary, as seen from the earth.
19	26 29	19 23	
20	27 30	19 37	
C 28	30 19	51	Seven-stars south at 12 at night.
22	29 31	20 4	Sun enters ♈ at 25 min. past 11 at night.
23	0 32	20 17	
24	1 33	20 30	
25	2 33	20 42	Mercury at his greatest elongation from the Sun, as seen from the earth.
26	3 34	20 53	
27	4 35	21 5	
C 5	36 21	16	
29	6 37	21 26	Saturn rises 34 min. past 12 at night.
30	7 38	21 36	

Lunations					M J	Venus
					D rises	sets
First Quarter 2d day, at 9 morning.					1	m <sub>3</sub> 3
Full Moon 9th day, at 8 morning.					7	17
Last Quarter 17th day, at 6 morning.					13	55
New Moon 24th day, at 10 night.					19	32
First Quarter 31st day, at 5 afternoon.					25	7
M	W	Holy-Days, Moon's	Moon's	D rises	Aspects and	
D	D	rises & sets Longit.	Declin.	& sets	Weather	
1	W	27 $\approx$ 11	3 s 15	10 a 57	* h g	
2	T	☉ rises 7 58	11 $\times$ 15	6 59 morn	Rough cold	
3	F	☉ sets 4 1	25 21	0 22	winds, with	
4	S	9 $\gamma$ 28	6 n 16	1 43	frosts.	
5	C	2 S. in Adv.	23 36	12 35	3 8	Sleet or show- ers now about.
6	M	[Nicholas	7 8 40	18 14	4 36	
7	T		21 39	22 52	6 3	
8	W	Concep. V.M.	5 $\Pi$ 27	26 9	7 26	* $\gamma$ g
9	T		19 1	27 50	D rises	
10	F	☉ rises 8 4	2 $\approx$ 17	27 56	4 a 30	
11	S		15 15	26 26	5 40	☐ ☉ h
12	C	3 S. in Adv.	27 53	23 37	6 56	
13	M	Lucy	10 $\Omega$ 13	19 46	8 10	
14	T		22 18	15 10	9 25	Frosty and perhaps some snow.
15	W	Emb. Week.	4 $\gamma$ 12	10 4	10 35	
16	T	Can. T.e. OSapi	16 1	4 39	11 44	
17	F	Oxf. T. ends	27 49	0 s 55	morn	Foggy and
18	S	☉ sets 3 52	9 $\triangle$ 42	6 30	0 54	
19	C	4 S. in Adv.	21 46	11 55	2 4	
20	M		4 $\gamma$ 6	16 59	3 17	☐ $\gamma$ g dark weather.
21	T	St. Thomas.	16 45	24 28	4 34	
22	W	[Short day	29 45	25 2	5 53	
23	T	☉ rises 8 8	13 $\ddagger$ 8	27 22	7 12	Weather pretty 8 ☉ g
24	F		26 51	28 6	D sets	
25	S	Christmas d.	10 $\gamma$ 51	27 5	3 a 56	
26	C	1 S. af. Chr. S.	25 4	24 18	5 30	☐ ☉ $\gamma$
27	M	St. John. [Step.	9 $\approx$ 24	19 58	7 1	
28	T	Innocent	23 46	14 29	8 30	
29	W		8 $\times$ 5	8 12	9 57	Some frosts.
30	T	☉ sets 3 54	22 19	1 34	1 r 22	
31	F	Silvester	6 $\gamma$ 27	5 n 5	morn	

D	Saturn		Jupiter		Mars		Venus	
M	Long.	Decl.	Long.	Decl.	Long.	Decl.	Long	Decl.
1	19 <sup>m</sup> 51	5 n 49	2 <sup>m</sup> 12	0 n 13	10 <sup>m</sup> 40	25 n 31	15 <sup>m</sup> 23	25 s 15
7	20 9	5 43	3 0	0 s 5	9 5	25 55	16 54	24 12
13	20 23	5 39	3 42	0 20	7 6	26 18	17 4	23 3
19	20 33	5 37	4 20	0 34	4 50	26 37	15 44	21 50
25	20 39	5 36	4 52	0 45	2 27	26 52	13 4	2 34

D	Sun's	Sun's	Observations	
M	Longit.	Declin.		
1	8 <sup>h</sup> 39	21 s 46	Day breaks 54 min. past 5 o'clock.	
2	9 39	21 55	Twilight ends 5 min. past 6 o'clock.	
3	10 40	22 4	D in Perigeo, nearest to the earth.	
4	11 41	22 13		
C	12 42	22 21		
6	13 43	22 28		
7	14 44	22 36	Day decreased 8 hours 40 min.	
8	15 45	22 42		
9	16 46	22 48	Saturn rises at 12 at night.	
10	17 47	22 54	Venus stationary, as seen from the earth.	
11	18 48	23 0	Moon eclipses a small star at 9 at night.	
C	19 49	23 5		
3	20 50	23 9		
14	21 51	23 13	Venus sets 45 min. past 5 at night.	
15	22 52	23 16	Mercury rises at 7 in the morning.	
16	23 54	23 20	D in Apogeo, farthest from the earth.	
17	24 55	23 22		
18	25 56	23 24	Day breaks at 6 o'clock.	
C	26 57	23 26		
20	27 58	23 27		
21	28 59	23 28		
22	0 <sup>h</sup> 0	23 28	Sun enters ♍ 51 past 11 morning.	
23	1 2	23 28		
24	2 3	23 27	Days decreased 8 hours 50 minutes.	
25	3 4	23 26		
C	4 5	23 24		
27	5 6	23 22		
28	6 8	23 19	D in Perigeo, nearest the earth.	
29	7 9	23 16		
30	8 10	23 13	Days increased 4 minutes.	
31	9 11	23 9	Saturn stationary, as seen from the earth.	



Satellite for 1802.

September	October	November	December
	Immersion.	Immersion.	Immersion.
	d. h. m. s.	d. h. m. s.	d. h. m. s.
The Eclipses	9 5 16 1	1 5 25 54	1 7 28 55
of Jupiter's	10 21 44 26	2 23 54 24	3 1 57 14
Satellites are	12 18 12 58	4 18 22 45	4 20 25 42
not visible	14 12 41 23	6 12 51 15	6*14 54 0
this month,	16 7 9 54	8 7 19 36	8 9 22 28
Jupiter being	18 1 38 18	10 1 48 6	10 3 50 45
too near the	19 20 6 49	11 20 16 27	11 22 19 13
Sun.	21 24 35 14	13 14 44 56	13*16 47 30
	23 9 3 44	15 9 13 16	15 11 15 57
	25 3 32 8	17 3 41 45	17 5 44 14
	26 22 0 39	18 22 10 5	19 0 12 41
	28*16 29 2	20*16 38 33	20*18 40 59
	30 10 57 31	22 11 6 53	22*13 9 25
		24 5 35 22	24 7 37 44
		26 0 3 41	26 2 6 11
		27*18 32 9	27 20 34 27
		29 13 0 27	29*15 2 53
			31 9 31 11

*N. B.* Those marked with an asterisk are visible at *Greenwich*; and the time are *mean or clock time.*

To illustrate the Use of the preceding Table by an Example — Suppose on the 16th Day of October this Year, the Time of the Immersion of Jupiter's first Satellite be observed by a Telescope, in an unknown Meridian, to happen at 8 h. 58 min 14 seconds; I find by the Table, that the Time of his Immersion will happen at the British Observatory at 7 h. 9 min. 54 sec the same Day: The Difference of the Time is 1 h. 48 min 20 sec. which being converted into Degrees and Minutes of the Equator, at the Rate of 15 Degrees per Hour, will make 27 deg 5 min. the Longitude of the Place of Observation to the East because the Time is more than that at the British Observatory.

operation.	Immersion observed - - - - -	8 <sup>h</sup> 58 <sup>m</sup> 14
	Immersion at <i>Greenwich</i> - - - - -	7 9 54
	<hr/>	
	The Difference of Time - - - - -	1 48 20
●	Answering to - - - - -	27° 5'

C

Mercury



Long.	Declin.	Long.	Declin.	Long.	Declin.
5 4 13	23 8 35	15 11 20	18 8 11	26 8 43	1 8 51
9 43	24 16	20 41	16 23	26 58	1 42
4 17	24 16	26 6	14 23	25 53	1 37
8 54	24 20	31 8	12 18	23 44	0 51
3 36	24 51	54 12	9 50	20 59	0 25
8 23	23 18	5 16	7 24	18 11	1 56
3 14	23 29	21 16	4 4	15 51	3 27
8 10	22 29	21 16	2 2	14 16	4 45
3 12	21 28	24 16	0 0	13 34	5 44
8 20	20 13	26 20	0 n	13 44	6 20
5 10	6 34	21 56	6 n	25 18	25 n 23
7 1	6 21	19 59	8 n	0 50	25 n 34
9 25	5 50	2 58	11 n	5 58	25 n 25
12 18	5 2	8 54	13 n	10 43	25 n 0
5 35	3 59	15 5	15 n	15 44	11 32
9 13	2 42	21 28	18 n	0 58	23 31
3 11	1 13	28 1	20 n	6 26	22 34
7 27	0 29	4 35	21 n	25 26	21 31
12 0	2 18	11 5	23 n	26 56	20 27
16 50	4 18	17 22	24 n	32 51	19 2
1 10	18 n	24 39	18 n	7 58	10 n 1
1 49	17 32	22 58	19 n	13 40	7 5
1 45	16 48	25 14	19 n	19 13	5 3
1 2	16 16	28 26	19 n	24 35	3 1
19 39	15 59	2 29	19 n	29 47	0 5
17 48	15 57	7 16	19 n	4 50	1 2
15 46	16 9	12 37	18 n	9 44	3 4
13 49	16 34	18 19	16 n	14 28	5 5
12 17	17 8	24 13	15 n	19 4	8
11 25	17 48	0 9	13 n	23 32	10
17 52	11 57	24 17	21 n	19 31	15 4
2 2	13 45	22 10	19 n	23 34	17 2
6 3	15 20	18 46	18 n	27 49	18 4
9 53	16 59	14 49	15 n	2 12	19 5
3 29	18 22	11 22	14 n	6 40	20 2
6 45	19 34	9 20	12 n	11 46	22 5
9 45	20 33	9 13	12 n	15 23	23 4
2 1	21 44	12 37	13 n	20 2	24 1
4 56	21 46	15 48	14 n	25 28	25 2

## EQUATION of TIME to the nearest Minute.

Day	Jan sub	Feb sub	Mar sub	Apr sub	May add	June add	July sub	Aug sub	Sept add	Oct add	Nov add	Dec add	Day
min	m	m	m	m	m	m	m	m	m	m	m	m	
1	4	14	12	4	3	3	3	6	0	11	16	10	1
2	4	14	12	3	3	2	4	6	1	11	16	10	2
3	5	14	12	3	3	2	4	6	1	11	16	9	3
4	5	14	12	3	4	2	4	6	1	11	16	9	4
5	6	14	12	2	4	2	4	6	2	12	16	9	5
6	6	15	11	2	4	2	4	5	2	12	16	8	6
7	7	15	11	2	4	1	5	5	2	12	16	8	7
8	7	15	11	2	4	1	5	5	3	13	16	7	8
9	8	15	11	1	4	1	5	5	3	13	16	7	9
10	8	15	10	1	4	1	5	5	3	13	16	6	10
11	8	15	10	1	4	1	5	5	4	13	16	6	11
12	9	15	10	1	4	0	5	5	4	14	15	5	12
13	9	15	9	0	4	0	5	5	4	14	15	5	13
14	10	15	9	0	4	0	5	5	4	14	15	4	14
15	10	15	9	add	4	sub	5	5	5	14	15	4	15
16	10	14	9	0	4	0	5	5	5	15	15	4	16
17	11	14	8	0	4	0	5	5	5	15	15	0	17
18	11	14	8	0	4	0	5	5	5	15	14	0	18
19	11	14	8	1	4	0	5	5	7	15	14	0	19
20	11	14	7	1	4	1	6	3	7	15	14	0	20
21	12	14	7	2	4	1	6	3	7	15	14	0	21
22	12	14	7	2	4	2	6	2	8	16	13	0	22
23	12	14	6	2	4	2	6	2	8	16	13	0	23
24	13	14	6	2	4	2	6	2	8	16	13	sub	24
25	13	13	6	3	3	2	6	2	9	16	12	1	25
26	13	13	6	3	3	2	6	2	9	16	12	1	26
27	13	13	5	3	3	3	6	1	9	16	12	2	27
28	13	13	5	3	3	3	6	1	9	16	11	2	28
29	14		5	3	3	3	6	0	10	16	11	3	29
30	14		4	3	3	3	6	0	10	16	11	3	30
31	14		4		3	1	6	add		16		4	31

If the equal or clock time be given, add or subtract the tabular numbers to or from it, as directed in the table; the sum or difference will be the apparent, or solar time. But do the contrary to reduce the apparent to equal time.

*A compendious CHRONOLOGY of MEMORABLE THINGS  
since the Creation to this present Year.*

A.P.J.	<i>before Christ.</i>		<i>Years since.</i>
710	4004	The Creation of the World	5806
1766	2948	Noah born	4750
2366	2348	Noah's Flood began	4150
2481	2233	The Babylonian Monarchy established	4035
2718	1996	Abraham born	3798
2986	1728	Joseph sold into Egypt	3530
3143	1571	Moses born	3373
3223	1491	The Israelites Departure out of Egypt	3293
3530	1184	Troy taken and destroyed by the Greeks	2986
3710	1004	Solomon's Temple built and dedicated	2805
4126	588	Jerusalem and the Temple destroyed	2390
4176	538	Daniel delivered from the Den of Lions	2340
4198	516	The Temple of Jerusalem rebuilt	2318
4391	323	The Death of Alexander the Great	2125
4710	4	The true Year of Christ's Birth	1806
4714	0	The vulgar Year of Christ's Birth.	1802
<hr/>			
A.D.			
33		The Passion and Resurrection of Jesus Christ	1769
70		Jerusalem and the Temple destroyed by Titus	1732
100		St. John, the last of the Apostles, died Dec. 20.	1702
313		Christianity triumphed under Constantine	1489
476		Augustulus, the last Roman Emperor, deposed	1326
606		The wicked Phocas made Pope Boniface Head of the Church	1196
608		Mahomet broached his Imposture at Mecca	1194
872		Italy and Rome plundered by the Saracens	930
1012		Swein King of Denmark conquered England	790
1066		William Duke of Normandy conquered England	736
1110		Arts and Sciences taught in Cambridge	692
1119		The first War between the French and English	683
1300		The Mariners Compass invented	502
1330		The Canaries discovered by an English Ship	472
1380		Gunpowder and the Use of Guns first found out	422
1453		Constantinople taken from the Christians	349

A.D.

A.D.

Years  
since.

1463	The <i>Persians</i> conquered by <i>Tamerlane</i>	339
1500	<i>Rome</i> plundered by the Duke of <i>Bourbon</i>	302
1517	<i>Martin Luther</i> first disputed against Popery	285
1536	<i>England</i> separated from the Church of <i>Rome</i>	266
1588	The <i>Spanish Armada</i> defeated by the <i>English</i>	214
1603	Q. <i>Eliz.</i> died <i>March 24</i> , and K. <i>James I.</i> began	199
1604	Died of the Plague in <i>London</i> , in 2 Years, 68,596.	198
1605	Gunpowder Treason, <i>Nov. 5</i> .	197
1613	The New-River Water brought to <i>London</i>	189
1618	The excellent Sir <i>Walter Raleigh</i> beheaded	184
1625	K. <i>James I.</i> died, K. <i>Charles I.</i> began <i>Mar. 27</i> .	177
1625	35,417 Persons died of the Plague in <i>London</i>	177
1641	The cruel <i>Irish</i> Massacre began, <i>October 23</i> .	161
1643	<i>Burleigh-House</i> stormed by <i>Cromwell</i> , <i>July 24</i> .	159
1649	K. <i>Charles I.</i> beheaded, <i>January 30</i> .	153
1658	<i>Oliver Cromwell</i> died, <i>September 3</i> .	144
1660	K. <i>Charles II.</i> restored, <i>May 29</i> .	142
1665	68,586 Persons died of the Plague in <i>London</i>	137
1666	<i>London</i> burnt, and a great Sea-fight with the <i>Dutch</i>	136
1672	War declared against the <i>Dutch</i> , <i>March 17</i> .	130
1674	A great Snow for 11 Days together	129
1675	The Town of <i>Northampton</i> burnt, <i>Sept. 3</i> .	127
1680	A great and splendid Comet appeared	122
1684	The great Frost that held 13 Weeks	118
1685	K. <i>Charles II.</i> died, <i>Feb. 6</i> , and K. <i>James II.</i> began	117
1685	The Duke of <i>Monmouth</i> beheaded, <i>July 15</i> .	117
1688	Seven Bishops sent to the Tower, <i>June 8</i> .	114
1688	K. <i>James II.</i> abdicated, <i>December 12</i> .	114
1689	K. <i>William</i> and Q. <i>Mary</i> crowned, <i>April 11</i> .	113
1692	The <i>French</i> Fleet entirely defeated by the <i>English</i>	110
1698	<i>Whitehall</i> Palace destroyed by Fire	104
1702	K. <i>William</i> died, <i>March 8</i> , and Q. <i>Anne</i> began	100
1702	Q. <i>Anne</i> proclaimed War against <i>France</i> , <i>May 4</i> .	100
1703	A great and terrible Wind, <i>Nov. 26</i> and <i>27</i> .	99
1704	<i>Gibraltar</i> taken by the <i>English</i>	98
1707	<i>England</i> and <i>Scotland</i> united, <i>May 1</i> .	95
1710	Riots and great Disturbances in <i>England</i>	92
1714	Q. <i>Anne</i> died, <i>August 1</i> , and K. <i>George I.</i> began	88

A.D.

Years  
since.

1713	A Rebellion in <i>Scotland</i> and <i>Launceston</i> suppressed	87
1716	A great Frost in the Beginning of this Year	86
1718	The <i>Spanish</i> Fleet destroyed by Admiral <i>Byng</i>	84
1719	A surprising Meteor seen, <i>March</i> 19, at 8 at Night	83
1719	Mr. <i>Flamsteed</i> , a celebrated Astronomer, died <i>Dec.</i> 31	83
1727	The incomparable Sir <i>Isaac Newton</i> died <i>Mar.</i> 20	75
1727	K. <i>George</i> I. died <i>June</i> 11, and K. <i>George</i> II. began	75
1736	The Prince and Princess of Wales married, <i>Apr.</i> 27	66
1739	Letters of Marque published in <i>London</i> against the <i>Spaniards</i> , <i>July</i> 16.	63
1739	War declared by <i>Great Britain</i> against <i>Spain</i>	63
1739	<i>Porto-Bello</i> taken and destroyed by Adm. <i>Vernon</i>	63
1740	A very severe Frost from <i>Dec.</i> 25, to <i>Feb.</i> 27	62
1742	A Comet appeared from <i>Feb.</i> 18, to <i>March</i> 14	60
1743	A splendid Comet appeared from <i>Dec.</i> 23, to <i>Feb.</i> 18, in $\gamma$	59
1744	<i>Mar.</i> 4, <i>France</i> declar. War against <i>England</i> ; and <i>Mar.</i> 31, <i>England</i> declared War against <i>France</i>	58
1745	<i>Cape Breton</i> taken from the <i>French</i> , <i>June</i> 16	57
1746	The <i>Scotch</i> Rebels defeated by the Duke of <i>Cum-</i> <i>berland</i> , at <i>Culloden</i> , near <i>Inverness</i> , <i>April</i> 16	56
1748	A general Peace signed <i>October</i> 7	54
1749	<i>Cape Breton</i> restored to the <i>French</i>	53
1750	The <i>British</i> Fishery established	52
1751	The Prince of Wales died <i>March</i> 20	51
1752	The Date and Calendar altered	50
1755	<i>Lisbon</i> destroyed by an Earthquake, <i>Nov.</i> 1	47
1756	<i>England</i> declared War against <i>France</i> , <i>May</i> 18	46
1756	<i>Minorca</i> taken by the <i>French</i> , <i>June</i> 27.	46
1757	Count <i>Brown</i> defeated by the King of <i>Prussia</i> , near <i>Prague</i> , <i>May</i> 6.	45
1757	The King of <i>Prussia</i> defeated by Count <i>Dann</i> , at <i>Collin</i> , <i>June</i> 18	45
1758	<i>French</i> defeat. at <i>Creveld</i> , by <i>Fr. Ferdinand</i> , <i>June</i> 23	44
1758	Lord <i>Howe</i> slain, <i>July</i> 6, and Gen. <i>Abercrombie</i> repulsed at <i>Ticonderoga</i> , <i>July</i> 8	44
1758	<i>Cape Breton</i> taken by the <i>English</i> , <i>July</i> 26	44

A. D.

A.D.		Years since.
1758	The <i>Russians</i> defeated at <i>Zorndorff</i> by the King of <i>Prussia</i> , Sept. 25	44
1759	The Island of <i>Guadaloupe</i> taken by Gen. <i>Barrington</i> and Commodore <i>Mopre</i> , May 1	43
1759	<i>French</i> defeated at <i>Minden</i> , by Pr. <i>Ferdinand</i> , Aug. 1	43
1759	The King of <i>Prussia</i> defeated at <i>Gunnerdorf</i> by the Count <i>de Soltikoff</i> , August 12	43
1759	Gen. <i>Wolfe</i> slain, though victorious, Sept. 13, and <i>Quebec</i> taken, Sept. 18, by Gen. <i>Townshend</i>	43
1760	<i>Montreal</i> taken by Gen. <i>Amherst</i> , Sept. 8	42
1760	K. <i>Geo. II.</i> died Oct. 25, and <i>Geo. III.</i> succeeded	42
1761	<i>Pondicherry</i> taken by Col. <i>Coote</i> , Jan. 15	41
1761	K. <i>Geo. III.</i> married Q. <i>Charlotte</i> , Sept. 8	41
1761	K. <i>Geo. III.</i> crowned, Sept. 22	41
1762	The Island of <i>Martinico</i> taken by Gen. <i>Monckton</i> , and Adm. <i>Rodney</i> , Feb. 14	40
1762	<i>George Prince of Wales</i> born, August 12	40
1762	The <i>Havannab</i> taken by Lord <i>Albemarle</i> and Sir <i>George Pocock</i> , August 12	40
1763	A general Peace in all <i>Europe</i>	39
1763	Duke of <i>York</i> born Aug. 16	39
1765	Duke of <i>Clarence</i> born August 21	37
1766	Duchess of <i>Wirtemberg</i> born Sept. 29	36
1767	Duke of <i>Kent</i> born Nov. 2	35
1768	Princess <i>Augusta-Sophia</i> born Nov. 8	34
1770	Princess <i>Elizabeth</i> born May 22	32
1771	Duke of <i>Cumberland</i> born June 5	31
1772	<i>Swedes</i> resign their Liberties to the King	30
1773	Prince <i>Augustus-Frederick</i> born Jan. 27	29
1773	The Light Gold recoined	29
1774	Prince <i>Adolphus Frederick</i> born Feb. 24	28
1775	War commenced against the <i>North-Americans</i>	27
1776	Princess <i>Mary</i> born April 25	26
1776	The <i>Americans</i> declare themselves independent	26
1777	Princess <i>Sophia</i> born Nov. 3	25
1778	The <i>French</i> sign a Treaty with the <i>Americans</i>	24
1778	War begun against the <i>French</i>	24
1779	War commenced against the <i>Spaniards</i>	23
1780	War against the <i>Dutch</i> begun	22
1783	A general Peace	19
1783	Princess <i>Amelia</i> born Aug. 7.	19

A.D.		Year Jan.
1783	New Volcanic Island appeared near <i>Iceland</i>	19
1783	More than 40,000 People perished by Earthquakes in <i>Italy</i>	19
1783	Peace with <i>France, Spain, and America</i> , concluded <i>Sept. 3</i>	19
1784	A general Peace concluded, <i>July 2</i>	18
1784	Seventeen Districts in <i>Iceland</i> desolated, by a sub- terraneous Fire	18
1786	Commercial Treaty with <i>France</i> signed <i>Sept. 26</i>	16
1788	His Majesty <i>George III.</i> seized with a dangerous Disorder	14
1789	<i>April 23</i> , the King, Royal Family, &c. went in State to <i>St. Paul's</i> , being a Day of General Thanksgiving for His Majesty's Recovery	13
1789	Revolution in <i>France</i>	13
1790	<i>Joseph II.</i> Emperor of <i>Germany</i> died <i>Feb. 20</i>	12
1790	<i>Henry Frederick</i> , Duke of <i>Cumberland</i> , died <i>Sept.</i> <i>18</i>	12
1792	<i>Leopold</i> , Emperor of <i>Germany</i> , died <i>March 1</i>	10
1792	<i>Gustavus</i> , King of <i>Sweden</i> , shot by <i>Ankerstrom</i> , <i>March 16.</i> died <i>March 29</i> following	10
1792	War declared by <i>France</i> against the King of <i>Bo-</i> <i>hemia and Hungary, April</i>	10
1792	The <i>French</i> Monarchy altered to a Republic, <i>Sept.</i>	10
1793	The French King, <i>Louis XVI.</i> beheaded, <i>Jan. 21</i>	9
1794	The French defeated by Lord <i>Howe</i> , <i>June 1</i>	8
1796	Prince of <i>Wales</i> married, <i>April 8</i>	7
1797	Spanish Fleet defeated by Earl <i>St. Vincent</i> , <i>Feb.</i> <i>14</i>	5
1797	Princess Royal married to the Duke of <i>Wirtem-</i> <i>berg, May 18</i>	5
1797	Dutch Fleet defeated by Lord <i>Duncan</i>	5
1798	French Fleet destroyed by Lord <i>Nelson</i>	4
1801	French make a Peace with <i>Germany</i>	3

OF THE  
ECLIPSES OF THE SUN AND MOON,  
AND SOME OTHER  
APPEARANCES IN THE HEAVENS,  
*This Year, 1802.*

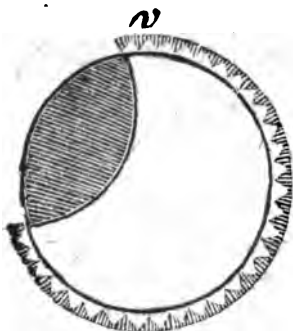
**T**HERE will be two Eclipses of the *Sun* within the limits of this year, and two of the *Moon*; and but one of each sort will be visible in these parts of the world. The first is a Solar Defect, on *Thursday*, the 4th day of *March*, at 55 min. past 4 in the morning, in  $\approx 12^{\circ} 57'$ , and the *Moon's* true latitude is  $42' 20''$  South; therefore invisible in this kingdom, and all the Northern parts of the Globe: but in the Southern parts of the Earth this will be a great Eclipse, even so, that in  $58^{\circ} 20'$  South Latitude, and  $114^{\circ} 7'$  East Longitude from *London*, the inhabitants, if any such there be, will be surpris'd with a total and central Eclipse of the *Sun* at mid-day.

The second is a partial Eclipse of the *Moon*, on *Friday*, the 19th of *March*, at 6 min. past our 11 o'clock in the forenoon, therefore invisible to us. At the greatest obscuration of this Eclipse, the *Moon* is vertical just upon the Equator, in about  $167^{\circ}$  deg. of West Longitude from *London*; therefore it appears that this Eclipse will be visible in New Zealand, New Holland, and all along its Eastern Coast called New South Wales; at Otaheite, and all the Society Islands, the Friendly Islands, the Molucca Islands, those of Sunda, Sumatra, Borneo, Eastern Tartary, and the Eastern parts of Russia. The *Moon*, at the middle, will be  $5^{\circ} 16'$  eclipsed on her North Side.

The third is an Eclipse of the *Sun*, on *Saturday*, the 28th of *August*, and visible here from *Sun* rise to the end, if clouds interpose not; for at *London* that morning, the *Sun* rises at 5 min. past 5 o'clock. The middle of the Eclipse, or time of the greatest obscuration, is at 19 min. past 5; when the *Sun* will



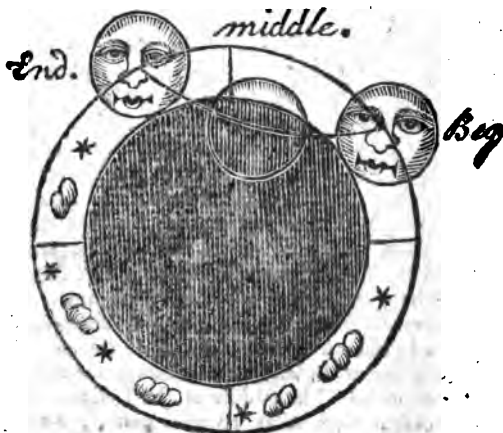
will be 4 digits 44 min. eclipsed ; the end of the Eclipse will be at 13 min. past 6, apparent time.



The annexed Type shows the the appearance expected at *London*, at the middle of the Eclipse, or soon after *Sun* rise, and will very well serve the whole Kingdom, *v*, the *Sun*'s vertex.

The fourth and last of these Eclipses, is a partial one of the *Moon* ; and if the air proves clear, will be visible to us ; it happens on *Saturday* night, the 11th day of *September*. The time and manner of appearance in this Kingdom, may be expected nearly as follow.

#### A Type of the Moon's Eclipse.



*September*

September 11th, at night.

	London.		York.		Edinb.		
	h.	m.	h.	m.	h.	m.	
Eclipse begins	9	14	9	9	9	1	app. time.
Middle	10	39	10	34	10	26	
Ecliptic Conj.	10	46	10	41	10	33	
Eclipse ends	12	5	12	0	11	52	

Digits eclipsed,  $9^{\circ} 12' 0''$ 

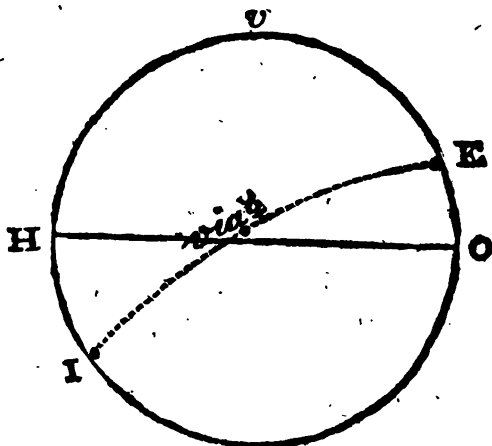
On *Tuesday*, the 9th day of *November*, there will be a Transit of *Mercury* over the *Sun's* Disk, and will appear like a black spot in it: He cannot be discovered by the naked eye, but may plainly be perceived by the help of an ordinary telescope. The time of his first entrance into the Disk will not be observed in any part of *Great Britain*, for the *Sun* will rise with the planet upon his face—and should the air prove clear, will be visible from *Sun* rise to his going off the Disk, which at *London* will be about noon; as appears by the following calculations made by Mr. *Andrews*, of *Royston*, in *Hertsfordshire*, for *London*.

	d.	h.	'	"
Apparent time of the true $\odot$ 1802, Nov.	8	21	15	37
Longit. of $\odot$ and $\text{☿}$ at the Ecliptic $\odot$	17	16	17	17
Aphelion of <i>Mercury</i> - - -	2	14	35	13
Ascending node of <i>Mercury</i> - - -	8	16	0	53
Inclination of the orbit of <i>Mercury</i> -			2	1 N.
Semidiameter of the <i>Sun</i> - - -			16	13
Ditto of <i>Mercury</i> - - -			0	4
Nearest approach of the centers of $\odot$ and $\text{☿}$			0	56 N.
Angle of visible path of <i>Mercury</i> - - -		8 $^{\circ}$	22'	0"
Hourly motion of $\text{☿}$ from $\odot$ - - -			12	37

Logarithm dist. *Mercury* à  $\odot$  = 4,496792Log. of the dist.  $\odot$  à  $\odot$  = 4,995531Log. dist. of  $\odot$  from *Mercury* = 4,829889

$\text{☿}$  true Lat. à  $\odot$  { when he first touches  $1' 30''$  S.  
 { when he goes off the *Sun*  $3' 16''$  N.

## The Type of the Transit of Mercury.



November 9th, in the morning.

	London.			York.			Edinb.			
	h.	m.	s.	h.	m.	s.	h.	m.	s.	
Central Ingress	6	27	54	6	23	23	6	15	5	
Sun rises . . .	7	25	0	7	35	0	7	41	0	app. Time.
Middle . . . .	9	14	15	9	9	44	9	1	26	
Ecliptic Conj. .	9	15	37	9	11	6	9	2	48	
Central Egress .	12	0	36	11	56	5	11	47	47	

Central Duration, 5 h. 32 m. 42 s.

*Notes.* The Type is adapted to the City of London, and shews the track of Mercury from the Sun's rising to the end of the Transit, and will tolerably serve the whole Kingdom. Mercury you see enters on the left side of the Sun; but will appear to begin on the contrary side, when looked at through a telescope, which reverses. Mercury enters the Sun at I, and goes off at E. V, the Sun's vertex, or uppermost point. H, O, an horizontal line.

*Siderum*

*Siderum Congressus.*

On *Thursday*, the 21st day of *January*, at night, the *Moon* will eclipse the Planet *Jupiter*; and if the air proves clear, will be visible to us. The *Moon* will be seen approaching the Star very fast, for some time before the Immersion takes place, which will be at 2 min. past 9 o'clock, which will be a little to the left of the *Moon's* lowest point; and the Emerfion will be at 9 min. past 10, when *Jupiter* will appear to come out from the dark part of the *Moon*, a little to the right of her uppermost point: after being hid 1 hour and 7 minutes.

On *Wednesday*, the 17th of *February*, at night, there will be another Occultation of the Planet *Jupiter* by the *Moon*, when the Star will appear near the lower point of the *Moon* (the *Moon* being at the full) and the Immersion takes place at 5 min. past 9 o'clock; and *Jupiter* will come out from behind the *Moon* at some distance to the right of the *Moon's* uppermost point, at 14 min. past 10; after being hid 1 hour and 9 minutes.

The next I shall mention, is another visible Occultation of *Jupiter* by the *Moon*, on *Tuesday*, the 13th of *April*, in the morning, when the Star will appear on the left side of the *Moon*, and *Jupiter* will enter under the dark edge of the *Moon* at 29 min. past 2 o'clock; and the Star will come out from behind the opposite and bright edge of the *Moon*, at 24 min. past 3 o'clock; after being hid 55 minutes. The calculations were made for the Meridian and Latitude of *London*, and according to apparent time. These may be seen by the naked eye, but will look more beautiful through a telescope.

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## Of the *FOUR QUARTERS* of the *YEAR* 1802;

WITH A SUMMARY

VIEW OF THE POSITIONS AND INFLUENCES

OF THE

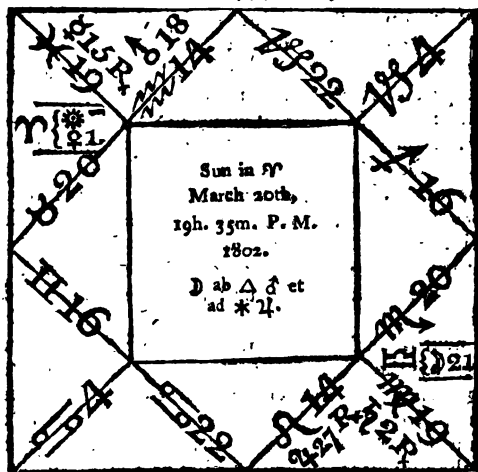
PLANETS therein.

Of the *SPRING QUARTER*.

THIS Quarter begins on *Sunday*, the 21st of *March*, at 35 min. past 7 in the morning, on which I shall make the principal

principal basis to raise my judgment upon for this Year's Revolution, when the Places of all the Planets and Culps of the Houses are as represented in the following Scheme.

### A SCHEME of the SUN's Ingress into ARIES.



In which are Positions of eminent Portents that will be attended with effects suitable to their natures. Here ♄ in 8 of ♈, and ♀ in ♊ in 8 of ♋; and the two grand superior Planets are within Orbs of their ensuing Conjunction, which takes place the 16th of July following, at 7 in the morning; the Effects of this Conjunction has begun for some time, and will continue, more or less, for some time after his present year. It happens in ♊, the Horoscope of *France*, and will afflict its capital, *Paris*; it falls in a ☐ aspect of the place of the last Conj. in ♈, which is the ascendant of *Spain*, and in 8 of the Horoscope of *Portugal* and *Egypt*; these countries and places will feel its baneful effects and powerful influences, which will certainly convert and change things in the world, and the observations of all ages are testimonies sufficient to confirm it: nay, even in our own age, we have been witnesses that very eminent Transactions have suc-

ceeded such Celestial congresses. I will here mention them for a century back—1702, a  $\odot$  in  $\varphi$ ; 1722, a  $\odot$  in  $\uparrow$ ; 1742, a  $\odot$  in  $\Omega$ ; 1762, a  $\odot$  in  $\varphi$ ; 1782, a  $\odot$  in  $\uparrow$ ; and now in 1802, a  $\odot$  in  $\pi$ ; all the former was in the Fiery Triplicity, and this last in the earthly; where  $\mathcal{U}$  has his detriment; and  $\mathcal{H}$  is wholly peregrine. It is well known to all *Europe*, that many eminent changes and contentions, with wars and bloodshed, have happened since the last *Conjunction* in 1782, which perhaps but few ages can parallel. *France* is still very active both in preparing levies of men for recruiting her armies, and also as prudently consulting how to manage her not altogether thriving affairs; for Providence doth not seem at all times to prosper her begun enterprizes. Our work I doubt is not finished; in some countries it is but just begun; and in some a foundation is laid for acting of greater matters, when time and opportunity offers. *Italy, France, Germany, Spain, Portugal, Russia, Sweden, and Denmark*, with *Holland and Prussia*, &c. are all concerned. The *Turks* seem to be spirited up to action against a particular Power, but the Stars bespeak them no good success; they will have enough upon their hands.

#### THE SUMMER QUARTER.

This Quarter begins on *Thursday*, the 22d of *June*, at 27 min. past 5 in the morning; when 21 degrees of  $\mathcal{X}$  culminate, and the 20th degree of  $\mathcal{S}$  ascend in the East. The  $\odot$  is located in the 12th House,  $\mathcal{Q}$  and  $\mathcal{L}$  in the 1st or ascendant.  $\mathcal{H}$  and  $\mathcal{U}$  in the 3d House, the planet  $\mathcal{J}$  in  $\varphi$ , on the Cusp of the 11th, the  $\mathcal{D}$  is in the m. c. in  $\Delta$  of  $\mathcal{Q}$  and next applying to a  $\Delta$  of  $\mathcal{L}$ . Thus stands the Face of the Heavens at this Solar Ingress. Here is an appearance of Treaties offered, Ambassadors sent from one country to another; and some talk of a Peace going forward, when I doubt nothing less is thought of, but to gain time or advantages. In this Quarter falls the grand *Conjunction* of the two superior Planets,  $\mathcal{H}$  and  $\mathcal{U}$  in the earthly sign *Virgo*; it is a *Conjunction* that forbodes many commotions and troubles, with desolations of every kind; and to render this *Conjunction* the more powerful, there follows it an Eclipse of the *Sun*, in the very sign and degree thereof; which together signifies the sickness or death of some eminent or great man; it also signifies a scarcity of the fruits of the Earth. I hope our nation and country may be free; but as some of these things will fall particularly on

*France,*

*France*, we who have been so long at war with that Power, and are not yet free from broils and discords, cannot expect but in a degree to share in the malignant influences of these configurations of the Heavenly Bodies; for I judge no small and trivial matters to succeed it, or to fall out near this time.

#### THE AUTUMN QUARTER.

This Quarter begins on *Thursday*, the 23<sup>d</sup> of *September*, at 8 min. past 7 at night. when 9 degrees of  $\gamma$  ascends, and 16 degrees of  $\nu$  is on the M. C. The  $\Delta$  ab  $\square$   $\varphi$  ad  $\ast$   $\delta$ , the Planets are all under the Earth, except  $\varphi$ , which is just setting in the West;  $\nu$  and  $\mu$  in  $\mu$  within 7 degrees of each other, and  $\delta$  in  $\Pi$ , *London's* ascendant, but in a  $\square$  of the two superiors *Saturn* and *Jupiter*; therefore it shews the affairs and particulars of this Quarter will be various, and of high concernment both to us, and to the *French*, and to other *European* Powers. I fear great losses and disappointments to ———, and other parts of the nation. I fear mortalities amongst men and cattle; together with beggary and want to many countries. It denotes consumptions, tedious and continued agues and other diseases; also dissimulation and dulness in the magistracy; heresies in the clergy and church; with a change of laws and customs, and the like.

#### THE WINTER QUARTER.

This Quarter enters when the *Sun* comes to the Tropick of *Capricorn*, which this year happens on *Wednesday*, the 22<sup>d</sup> of *December*, at 51 min. past 11 in the morning; at this Ingress  $\nu$  and  $\mu$  are in a  $\square$  aspect of  $\delta$ , which are Configurations of a hostile and rugged import; they signify robberies, murders, and other outrageous proceedings; I fear our tranquil days are not so near at hand as might be wished; there seems still a snake in the grass! more briers and thorns must be cut down, before a lasting peace, I doubt, can be expected; though nevertheless, something of that sort is again talked of, and brought upon the carpet.—*Kiwat Rex*.

F I N I S.

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ΑΤΛΑΣ ΟΥΡΑΝΙΟΣ,  
**The COELESTIAL ATLAS;**  
 OR, A NEW  
**E P H E M E R I S**

For the YEAR of our LORD 1802.

Being the Sixth after  
**BISSEXTILE, or LEAP-YEAR,**

And the Second Year of the 19th Century.

Wherein are contained

The Heliocentrick and Geocentrick Places of the Planets,  
 the ECLIPSES of the Luminaries, and other remarkable PHENO-  
 MENA that will happen this Year.

Carefully computed

From the genuine TABLES of Dr. EDMUND HALLEY,  
 those of Professor MAYER, and other the latest and most correct  
 ASTRONOMICAL TABLES.

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 of the Church of ENGLAND; the Times of the LUNATIONS;  
 the Rising and Setting of the Sun, Moon, and Planets, &c.

Adapted to the

Meridian and Latitude of the Royal Observatory of  
**GREENWICH.**

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Several useful TABLES: As, a TABLE of the Sun's  
 semi diurnal Arcs, by which the Times of the Sun's Rising and  
 Setting may be known by Inspection, on every Day of the Year, and  
 in any Part of GREAT-BRITAIN or IRELAND; a TABLE,  
 and a very correct one of the Eclipses of the Sun and Moon;  
 a TABLE of the Sun's Right-Ascension, and Declination;  
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**By ROBERT WHITE,**

Teacher of the Mathematicks.

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The FIFTY-THIRD IMPRESSION.

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## Chronological Notes for the Year 1802.

Golden Number	-	-	17	Septuagesima Sunday, Feb.	14
Cycle of the Sun	-	-	19	Shrove Sunday	- Feb. 28
The Epact	-	-	26	Easter Day	- Apr. 18
Dominical Letter	-		C	Whit Sunday	- June 6
Number of Direction	-		28	Trinity Sunday	- June 13
Roman Indiction	-	-	5	Advent Sunday	- Nov. 28

## Astronomical CHARACTERS explained.

♈ Aries	♋ Cancer	♎ Libra	♏ Capricorn
♉ Taurus	♌ Leo	♍ Scorpio	♐ Aquarius
♊ Gemini	♍ Virgo	♐ Sagittary	♑ Pisces
♄ Saturn	☉ Sol (the Sun)	☾ Luna (the Moon)	☿ Herschel,
♃ Jupiter	♀ Venus	♊ Moon's N. Node	the New or
♂ Mars	☿ Mercury	♋ her S. Node	Georgian Planet.
♌ Conjunction when Planets are in the same Sign, Deg. Min. &c.			
* Sextile when 2 Signs dist.		△ Trine when 4 Signs dist.	
□ Quartile when 3 Signs dist.		♌ Opposition when 6 Signs dist.	

## Of the Four Quarters of the YEAR 1802.

		d	h	m
THE Spring Quarter begins	-	March 21	7	35 morn.
The Summer Quarter begins	-	June 22	5	27 morn.
The Autumnal Quarter begins	-	Sept. 23	7	8 aftern.
The Winter Quarter begins	-	Dec. 22	11	51 morn.

THE beautiful Planet VENUS will be a Morning Star till March the 17th; and after that Time she will be an Evening Star to the Year's End.

JUPITER will be an Evening Star till September the 9th; at which Time he becomes a Morning Star, and so continues to the Year's End.

Days	Day lig. begins	Day lig. ends	Durat. twilig.	Pl. D's node	h's latitude	u's latitude	δ's latitude	♀'s latitude	♂'s latitude
1	5 30	6 29	1 55	22 X 55	1 n 50	1 n 14	0 s 41	0 s 46	2 s
7	5 22	6 38	1 54	22 36	1 51	1 15	0 45	0 58	1 3
13	5 12	6 48	1 53	22 17	1 52	1 15	0 48	1 7	0 5
19	5 1	6 59	1 52	21 58	1 53	1 10	0 52	1 15	0 n 1
25	4 50	7 10	1 52	21 38	1 51	1 16	0 56	1 21	1 4
Days	☉'s longitude	☽'s long.	☽'s latitude	h's long.	u's long.	δ's long.	♀'s long.	♂'s long.	
1	12 0 15	23 15 50	4 s 22	5 m 45	3 m 12	11 51	1 m 7	1 m 2	
2	13 1 7	9 m 7	3 28	5 4	3 5	12 36	2 22	17	
3	14 1 59	24 23	2 20	5 37	2 58	13 21	3 37	18 5	
4	15 2 49	9 X 30	1 1	5 33	2 51	14 6	4 52	20 4	
5	16 3 37	24 17	0 n 18	5 28	2 44	14 51	6	22 2	
6	17 4 24	8 22	1 35	5 24	2 36	25 36	7 23	24 1	
C	18 5 10	22 35	2 44	5 19	2 29	16 22	8 38	26	
8	19 5 54	6 8 3	3 42	5 15	2 21	17 7	9 53	27 5	
9	20 6 36	19 7	4 26	5 10	2 14	17 52	11 8	29 4	
10	21 7 16	1 II 49	4 56	5 5	2 6	18 37	12 23	1 X 3	
11	22 7 55	14 14	5 11	5 1	1 59	19 22	13 39	3 20	
12	23 8 32	26 25	5 12	4 56	1 51	20 7	14 54	5	
13	24 9 7	8 26	4 49	4 51	1 43	20 53	16 9	6 5	
C	25 9 40	20 21	4 33	4 47	1 36	21 38	17 24	8 4	
15	26 10 11	2 2	3 56	4 42	1 28	22 24	18 39	10 2	
16	27 10 41	14 2	3 8	4 37	1 20	23 9	19 54	12	
17	28 11 9	25 52	2 12	4 32	1 12	23 55	21 9	13 4	
18	29 11 35	7 m 45	1 10	4 27	1 4	24 40	22 24	15 2	
19	X 0 12 0	19 42	0 5	4 22	0 56	25 26	23 39	16 5	
20	1 12 23	1 46	1 s 1	4 18	0 49	26 11	24 54	18 2	
C	2 12 45	13 59	2 6	4 13	0 41	26 57	26 9	20 4	
22	3 13 5	26 23	3 5	4 8	0 33	27 42	27 24	21	
23	4 13 24	9 m 2	3 57	4 3	0 25	28 28	28 39	22 1	
24	5 13 42	21 59	4 38	3 58	0 17	29 13	29 54	23 1	
25	6 13 58	5 17	5 6	3 53	0 9	29 59	1 X	24 1	
26	7 14 12	18 58	5 17	3 49	0 2	0 m 44	2 24	25	
27	8 14 26	3 15 2	5 10	3 44	29 54	1 30	3 39	25 4	
C	9 14 38	17 29	4 43	3 39	29 46	2 16	4 54	26 20	
Days	u's rises	δ's rises	♀'s rises	♂'s sets	h's declin.	u's declin.	δ's declin.	♀'s declin.	♂'s declin.
1	6 a 17	6 a 3	7 m 12	4 a 42	11 n 7	11 n 29	23 s 37	20 s 41	18 s 1
7	5 51	5 56	7 2	5 23	11 18	11 46	23 12	19 2	14 2
13	5 23	5 48	6 57	6 3	11 29	12 3	22 39	17 5	9 5
19	4 55	5 40	6 5	6 40	11 40	12 20	21 56	14 50	4 5
25	4 28	5 30	6 45	7 4	11 51	12 38	21 5	12 20	0 4

## BIRTH-DAYS of the ROYAL FAMILY.

KING GEORGE III. June 4, 1738	Prince Adolph. Fred. Feb. 24, 1774
Prince of Wales, Aug. 12, 1762	Princess Mary, April 25, - 1776
Duke of York, August 16, 1763	Princess Sophia, Nov. 3, - 1777
Duke of Clarence, Aug. 21, 1765	Princess Amelia, Aug. 7, - 1783
Ds. of Wirtemberg, Sept. 27, 1766	Queen Charlotte, May 19, 1744
Duke of Kent, Nov. 2, - 1767	Duchess of Brunswick, Aug. 11, 1737
Prs. Augusta Sophia, Nov. 8, 1768	Duke of Gloucester, Nov. 25, 1743
Prs. Elizabeth, May 22, - 1770	Princess of Wales, May 17, 1768
Duke of Cumberland, June 5, 1771	Duchess of York, May 7, 1767
Prince Aug. Fred. Jan. 27, 1773	

## SOVEREIGNS of EUROPE, their Accession, &amp;c.

Kingdoms, &c.	To whom subject.	When born.	Began to reign.
England, &c.	George III.	June 4, 1738	Oct. 25, 1760
Russia	Alexander	Dec. 23, 1777	Mar. 24, 1801
Spain	Charles IV.	Nov. 11, 1748	Dec. 17, 1788
Portugal	Peter and Mary	Dec. 7, 1734	Feb. 24, 1777
Prussia	Frederic Wm. III.	Aug. 6, 1770	Nov. 16, 1797
Denmark & Norway	Christian VII.	Jan. 29, 1749	Jan. 14, 1766
Sweden	Gustavus IV.	Nov. 1, 1778	Mar. 20, 1792
Germany	Francis II.	Feb. 12, 1767	Mar. 1, 1792
Papedom	Pius VII.	Aug. 11, 1742	Mar. 14, 1800
Sardinia	Charles-Emanuel	May 24, 1751	Oct. 16, 1796
Ottoman Empire	Selim III.	July 17, 1761	April 7, 1789

## The FULL WEIGHT of the Coins, with the LEAST WEIGHT allowed to pass of the Gold Coin.

Wt. allowed.		Full Wt.		SILVER:		Full Wt.	
GOLD.	dwt. gr.	dwt. gr.				dwt. gr.	
Guinea, - -	5 8	5 9 <sup>3</sup> / <sub>4</sub>		A Crown, - -		19 8 <sup>1</sup> / <sub>2</sub>	
Half Guinea, -	2 16	2 16 <sup>3</sup> / <sub>4</sub>		Half Crown, -		9 16 <sup>3</sup> / <sub>4</sub>	
Seven Shillings, 1	19	1 19 <sup>1</sup> / <sub>2</sub>		Shilling, - -		3 10 <sup>3</sup> / <sub>4</sub>	
				Six Pence, - -		1 22 <sup>1</sup> / <sub>2</sub>	

According to the above proportions it appears, that the value of a *lb.* of silver is 62s. or 31. 2s. and of a *lb.* of gold is 44<sup>1</sup>/<sub>2</sub> guineas, or 461. 14s. 10d. Also that the *oz.* of silver is 5s. 2d. and the *oz.* of gold 31. 17s. 0<sup>1</sup>/<sub>2</sub>d. So that the value of the standard gold is 15 times that of the silver, and 1-14th more.

**A. TABLE of the KINGS and QUEENS of ENGLAND  
since the CONQUEST.**

Kings and Queens	Born A.D.	Began their Reign	Reigned Y. M. D.	Rem. Deaths and Dethroned	Where buried
Will. Conq.	1027	1066 Oct. 14	20 10 26	Burst by Leap.	Caen, Norm.
Will. Rufus	1057	1087 Sept. 9	12 10 24	Slain accidentally.	Winchester
Henry I.	1068	1100 Aug. 2	35 3 29		Reading
Stephen	1105	1135 Dec. 1	18 10 24		Feverham
Henry II.	1133	1154 Oct. 25	34 8 11		Fonteveraud
Richard I.	1156	1189 July 6	9 9 0	Slain with an Arrow,	Fonteveraud
John	1165	1199 April 6	17 6 13		Worcester
Henry III.	1207	1216 Oct. 19	56 10 28		Westminster
Edward I.	1210	1272 Nov. 16	34 7 21		Westminster
Edward II.	1284	1307 July 7	19 6 18		Gloucester
Edward III.	1312	1327 Jan. 25	50 4 27		Westminster
Richard II.	1366	1377 June 21	22 3 8	Dep. & murd.	Westminster
Henry IV.	1367	1399 Sept. 29	13 5 20		Canterbury
Henry V.	1389	1413 Mar. 20	9 5 11		Westminster
Henry VI.	1421	1422, Aug. 31	18 6 4	Dep. & murd.	Windfor
Edward IV.	1442	1461 Mar. 4	22 1 5		Windfor
Edward V.	1471	1483 April 9	0 2 15	Murder'd.	Not known
Richard III.	1443	1483 June 22	2 2 0	Slain in Battle.	Leicester
Henry VII.	1456	1485 Aug. 22	23 8 0		Westminster
Henry VIII.	1492	1509 April 22	37 9 6		Windfor.
Edward VI.	1537	1547 Jan. 28	6 5 8		Westminster
Mary I.	1516	1553 July 6	5 4 11		Westminster
Elizabeth	1533	1558 Nov. 17	44 4 7		Westminster
James I.	1566	1603 Mar. 24	22 0 3		Westminster
Charles I.	1600	1625 Mar. 27	23 10 3	Beheaded.	Windfor
Charles II.	1630	1649 Jan. 30	36 0 7		Westminster
James II.	1633	1685 Feb. 6	4 0 7	Abdicated.	St. Germain
Mary II.	1662	1689 Feb. 13	5 10 15		Westminster
William III.	1650	1689 Feb. 13	13 0 23		Westminster
Anne	1665	1702 Mar. 8	12 4 24		Westminster
George I.	1660	1714 Aug. 1	12 10 10		Hanover
George II.	1683	1727 June 11	33 4 14		Westminster
George III.	1738	1760 Oct. 25	Crowned Sept. 22, 1761.		

Above you view the Rise and Fall of Kings,  
 Whose Fate sometimes a useful Lesson brings.  
 Well if all Men could profit from the past!  
 Each know his Duty, each excel the last,  
 And justly execute his stated Task.

TABLE of the most Reverend, Right Reverend, and Reverend, the ARCH-BISHOPS, BISHOPS and DEANS, exercising Ecclesiastical Jurisdiction, 1802.

BISHOPS.	See.	Date.	Succeeded.	DEANS.
Dr. John Moore	<i>Bangor</i>	1775	Ewer deceased	
Arch-Bishop	<i>Canterb. A. B.</i>	1783	Cornwallis dec.	Dr. Powys
Dr. Will. Markham	<i>Chester</i>	1771	Keene translat.	
Arch-Bishop	<i>York A. B.</i>	1777	Drummond dec.	Dr. J. Fountayne
Dr. Beilby Porcus	<i>Chester</i>	1776	Markham tran.	
	<i>London</i>	1787	Lowth deceas.	Bishop Pretyman
	<i>London</i>	1769	Shipley translat.	
Hon. Dr. S. Barrington	<i>Salisbury</i>	1782	Hume dec.	
	<i>Durham</i>	1791	Thurlow dec.	Bishop Cornwallis
	<i>Litch. &amp; Cov.</i>	1771	Egerton translat.	
Hon. Dr. B. North	<i>Worcester</i>	1774	Johnson deceas.	
	<i>Winchester</i>	1781	Thomas deceas.	Dr. Newton Ogle
Dr. Charles Moss	<i>St. David's</i>	1766	Lowth translat.	
	<i>Bath &amp; Wells</i>	1774	Willes deceas.	Dr. Geo. W. Lukin
	<i>St. David's</i>	1774	Moss translat.	
H. Dr. James Yoike	<i>Gloucester</i>	1779	Warburton dec.	
	<i>Ely</i>	1781	Keene deceased	Dr. Wm. Pearce
Dr. Richard Hurd	<i>Litch. &amp; Cov.</i>	1775	B. North tr.	
	<i>Worcester</i>	1781	B. North tr.	Dr. Ar. Onslow
Dr. John Butler	<i>Oxford</i>	1777	Lowth translat.	
	<i>Hereford</i>	1788	Harley deceas.	Dr. N. Wetherell
Dr. J. Cornwallis	<i>Litch. &amp; Cov.</i>	1781	Hurd translat.	Dr. Bapt. Proby
	<i>Bristol</i>	1782	Newton dec.	
Dr. Lewis Bagot	<i>Norwich</i>	1783	Yonge dec.	
	<i>St. Asaph</i>	1790	Hallifax dec.	Mr. W. D. Shipley
Dr. Richard Watson	<i>Landaff</i>	1782	Barrington tr.	Mr. S. Ga'e, Prec.
Dr. G. Pretyman	<i>Lincoln</i>	1787	Thurlow tran.	Sir Ri. Kaye, Bt.
Dr. John Douglas	<i>Carlisle</i>	1787	Law dec.	
	<i>Salisbury</i>	1791	Barrington tra.	Dr. John Ekins
Dr. Samuel Horsley	<i>St. David's</i>	1788	Smalwell tr.	
	<i>Rocheſter</i>	1793	Thomas dec.	Dr. T. Dampier
	<i>Chester</i>	1788	Porteus tran.	
Dr. Wm. Cleaver	<i>Bangor</i>	1800	Warren dec.	Mr. John Warren
Dr. Richard Beadon	<i>Gloucester</i>	1789	Hallifax tran.	Dr. John Luxmore
Dr. E. V. Vernon	<i>Carlisle</i>	1791	Douglas translat.	Dr. Isaac Milner
Dr. Charles Sutton	<i>Norwich</i>	1792	Horne decea.	Dr. Joseph Turner
	<i>Bristol</i>	1792	Bagot translat.	
Dr. Spencer Madan	<i>Peterborough</i>	1794	Hinchliffe dec.	Dr. Tho. Kipling
	<i>Bristol</i>	1794	Madan tranſ.	
Dr. Regi. Courtenay	<i>Exeter</i>	1797	Buller dec.	Dr. C. Harward
Dr. F. H. W. Cornwall	<i>Bristol</i>	1797	Courtenay tra.	Dr. C. P. Layard
Dr. John Buckner	<i>Chicheſter</i>	1797	Ashburnham d.	Mr. Combe Miller
Dr. John Randolph	<i>Oxford</i>	1799	Smalwell dec.	Dr. Cyril Jackson
Dr. H. W. Majendie	<i>Cheſter</i>	1800	Cleaver tran.	Dr. G. Cotton
Lord Geo. Murray	<i>St. David's</i>	1800	Stuart translat.	Mr. Wollaston, P.
	<i>W. ſtminſter</i>	1793	Thomas dec.	Bishop Horsley
	<i>Winſter</i>	1788	Douglas prom.	Bishop Sutton
Dr. Crigan	<i>Sodor and Man</i>			

IN the course of this year there will happen four eclipses, two of each luminary, but only one of each will be visible in these parts.

I. *March 4*, the Sun is eclipsed, but not visible in these northern parts of the globe. The conjunction is at 4h 55m, in the morning, in longitude  $11^{\circ} 12' 57''$ , the moon's latitude being  $42\frac{1}{2}'$  south.

II. *March 19*, the Moon is eclipsed, but invisible here. The beginning is at 9h 54m in the morning; the middle of the eclipse 11h 6m; the ecliptic opposition at 11h 15m; end of the eclipse 22 $\frac{1}{2}$ m after 12; digits eclipsed  $5^{\circ} 16'$  on the north side of the moon.

III. *August 18*, the Sun is eclipsed, and partly visible, as the Sun rises eclipsed at 5h 7m; the visible conjunction is at 5h 17m morning, the greatest obscuration 5h 19m; and the eclipse ends at 6h 13m; the digits eclipsed being  $4^{\circ} 44'$  on the sun's north side.

IV. *September 11*, the Moon is eclipsed, and visible here if clouds intervene not. The eclipse begins at 9h 13 $\frac{1}{2}$ m afternoon; middle of the eclipse 10h 39 $\frac{1}{2}$ ; the ecliptic opposition 10h 45 $\frac{1}{2}$ m; end of the eclipse is 5m past midnight; and the digits eclipsed  $9^{\circ} 12'$  on the moon's south side.

Beside these eclipses, there will be a transit of the planet Mercury over the Sun's disc, and several notable occultations of the planets by the moon.

*Transit of Mercury.* *November 9* in the morning there happens a remarkable transit of the planet Mercury over the face of the Sun, passing over it like a small round black speck, and will be visible here if clouds interpose not. The beginning of this transit will be seen as far as the East Indies, New Holland, New Zealand, &c. the middle will be seen in all Africa, and most part of Europe and Asia; and the end will extend as far westward as Cape Horn, South America, and most of the West India islands. The annexed type shows the appearance or path for London, where the Sun rises, with Mercury on his face, at 7h 26m in the morning; the transit begins on the left hand at I, at 6h 28m; the middle at 9h 14m; and the end, at E, at 12h 1m, or 1m afternoon. The figure shows the appearance for the naked eye, using a darkened glass to defend it against the Sun's beams. In a telescope that reverses, the sides will be reversed.



Obliquity of the Ecliptic.	1802.	Equation of Equinoctial Points.
23° 27' 59". 5 -	January 1,	- +1". 7
23 28 0. 2 -	April 1,	- +3. 2
23 27 59. 0 -	July 1,	- +4. 7
23 27 59. 6 -	October 1,	- +6. 1
23 27 58. 1 -	Decemb. 31,	- +7. 6

## The LUNATIONS.

New Moon the 2d day, at 43 minutes past 1 morning.  
 First quarter the 5th day, at 57 minutes past 6 afternoon.  
 Full Moon the 17th day, at 37 minutes past 2 afternoon.  
 Last quarter the 24th day, at 56 minutes past 10 morning.  
 New Moon the 31st day, at 43 minutes past 12 noon.

M	Sun-day & other D r mark days	☉ rises	☉ sets	☉'s declin.	☽'s declin.	☽ rises & sets	☽ South	Clock aft. ☉
1	St. Phil. & Jam.	4 30	7 24	14 57	15 15	3 11 5	11 12 25	3 1
2	St. Ss. aft. Easter	4 31	7 26	15 15	15 21	☿ sets	10 11	3 1
3	Inv. of Cross	4 33	7 27	15 33	15 24	9 a 56	1 11	3 17
4		4 34	7 29	15 50	15 27	11 14	2 7	3 23
5	E. of T. Ter. be.	4 29	7 31	16 28	15 20	morn	3 3	3 2
6	John V. A. P. L.	4 27	7 33	16 25	15 27	0 11	3 57	3 35
7		4 26	7 34	16 42	15 26	0 55	4 49	3 40
8		4 24	7 36	16 58	15 23	1 24	5 37	3 44
9	3 Ss. aft. Easter	4 23	7 37	17 14	15 19	1 44	6 22	3 48
10		4 21	7 39	17 30	15 14	2 0	7 4	3 51
11		4 19	7 41	17 46	15 9	2 13	7 45	3 51
12		4 18	7 42	18 1	15 3	2 24	8 25	3 56
13	Old May Day	4 16	7 44	18 17	15 2	2 34	9 5	3 58
14		4 15	7 45	18 31	15 8	2 43	9 48	3 59
15		4 13	7 47	18 46	15 13	2 55	10 33	3 59
16	4 S. of Easter	4 12	7 48	19 0	15 18	3 9	11 23	3 50
17	Prs. Wales b.	4 10	7 50	19 14	15 23	☿ rises	morn	3 58
18		4 9	7 51	19 27	15 26	9 a 54	0 17	3 57
19	Queen Char. b.	4 8	7 52	19 41	15 28	11 3	1 16	3 55
20	[Dunstan]	4 6	7 54	19 53	15 28	6 11	2 18	3 53
21		4 5	7 55	20 6	15 26	morn	3 20	3 50
22	Prs. Elis. born	4 4	7 56	20 18	15 22	0 32	4 20	3 46
23	5 or Roge. Sun.	4 2	7 58	20 30	15 17	0 57	5 16	3 42
24		4 1	7 59	20 41	15 11	1 14	6 8	3 39
25		4 0	8 0	20 53	15 5	1 20	6 57	3 33
26	Augustin, App.	3 59	8 1	21 3	15 1	1 40	7 44	3 27
27	Ascen. Holy Th.	3 58	8 2	21 14	15 8	1 53	8 31	3 21
28	[Ven. Bede]	3 57	8 3	21 24	15 14	2 7	9 19	3 14
29	K. Char. a rest.	3 55	8 5	21 33	15 19	2 21	10 8	3 7
30	Sun. af. Ascen.	3 54	8 6	21 43	15 23	2 41	11 0	2 59
31	Easter Term e.	3 53	8 7	21 52	15 26	☿ sets	11 55	2 51
Day increas	Length of day	Helioc. long. ♀	Helioc. long. ♂	Helioc. long. ♂	Helioc. long. ♂	Helioc. long. ♀	Helioc. long. ♀	☿ sets
1	7 4 14 45	6 22 26	6 22 17	15 40	10 21	7 11 52	17 31	2 15 55
7	7 24 15 8	6 39	6 45	19 28	16 10	17 32	22 57	2 31
3	7 44 15 28	6 51	7 12	23 16	21 5	27 15	23 26	2 8
9	8 0 15 44	7 4	7 40	27 4	27 44	6 56	28 56	1 45
5	8 10 16 0	7 17	8 2	0 52	1 20	16 39	6 30	1 22

Day	lig. begins	Day	g. ends	Durat. twilig.	Pl. Q's node	h's latitude	u's latitude	δ's latitude	♀'s latitude	♂'s latitude
2	7	9	55	2 31	18 X 12	1 n 50	1 n 11	1 s 26	0 s 11	2 s
1	45	10	18	2 43	17 53	1 49	1 10	1 27	0 n 4	1
3	20	10	45	3 1	17 34	1 45	1 9	1 28	0 19	0
9	48	11	20	3 27	17 15	1 48	1	1 29	0 34	0 n
5	All day light.					16 56	1 47	1 8	1 29	0 48
☉'s longitude		☌'s long.		☍'s latitude		h's longit.	u's longit.	δ's longit.	♀'s longit.	♂'s long.
1	8 10 21 19	3 8	3 32	0 n 35	25 55	19 50	21 47	21 19		
2	18 19 29	10 47	4 18	0 37	25 57	20 36	23 1	23 4		
3	12 17 37	0 II 16	4 50	0 D 37	25 59	21 22	24 15	25 2		
4	13 15 43	13 27	5 5	0 37	26 1	22 8	25 21	27 1		
5	14 13 47	26 17	5 4	0 36	26 3	22 51	26 43	29 1		
6	15 11 49	8 49	4 48	0 36	26 5	23 45	27 57	1 8		
7	16 9 50	21 3	4 19	0 36	26 8	24 25	29 10	2 6		
8	17 7 48	3 4	3 40	0 36	26 11	25 11	0 II 24	4 5		
C	18 5 45	14 57	2 51	0 37	26 14	25 57	1 37	6 5		
10	19 3 40	26 46	1 55	0 38	26 17	26 42	2 51	8 5		
11	20 1 33	8 37	0 54	0 39	26 20	27 28	4 4	10 5		
12	20 59 24	20 35	0 s 10	0 40	26 23	28 14	5 18	13		
13	21 57 13	2 45	1 14	0 41	26 27	28 59	6 31	15		
14	22 55 1	15 11	2 16	0 42	26 31	29 45	7 45	17 1		
15	23 52 47	27 56	3 13	0 43	26 35	30 30	8 58	19 1		
C	24 50 32	11 1	4 1	0 45	26 40	1 16	10 11	21 2		
17	25 48 15	24 26	4 37	0 46	26 44	2 1	11 25	23 3		
18	26 45 56	8 9	4 58	0 47	26 48	2 47	12 39	25 4		
19	27 43 37	22 7	5 2	0 49	26 53	3 34	13 52	28		
20	28 41 17	5 17	4 47	0 51	26 58	4 18	15 6	0 II 1		
21	29 38 55	20 29	4 15	0 53	27 3	5 3	16 19	2 2		
22	II 0 36 33	4 44	3 27	0 55	27 8	5 48	17 33	4 3		
C	1 34 9	18 58	2 26	0 57	27 13	6 33	18 46	6 4		
24	2 31 45	3 7	1 16	0 59	27 18	7 18	20 0	8 5		
25	3 29 20	17 11	0 2	1 1	27 23	8 3	21 13	11		
26	4 26 54	1 9	1 n 12	1 4	27 29	8 48	22 26	13 1		
27	5 24 28	15 0	2 20	1 6	27 35	9 33	23 40	15 1		
28	6 22 1	28 44	3 20	1 10	27 41	10 18	24 53	17 2		
29	7 19 32	12 19	4 7	1 12	27 47	11 3	26 6	19 2		
C	8 17 3	25 42	4 40	1 14	27 53	11 48	27 20	21 2		
31	9 14 33	8 53	4 5	1 17	27 59	12 33	28 32	23 2		
M	u's sets	δ's rises	♀'s sets	♂'s rises	h's declin.	u's declin.	δ's declin.	♀'s declin.	♂'s declin.	
1	2 m 43	3 m 17	8 27	4 m 16	13 n 11	14 n 1	5 s 21	18 n 4	6 n 2	
7	2 20	3 2	8 47	4 10	12 59	14 55	3 35	20 4	11	
13	1 57	2 46	9 5	4 6	12 56	13 48	1 45	21 44	15 4	
19	1 34	2 30	9 22	4 2	12 53	13 39	0 n 3	23 3	20	
25	1 11	2 13	9 37	4 9	12 48	13 27	1 50	23 58	23 2	



## The LUNATIONS.

First quarter the 8th day, at 48 minutes past 12 noon.

Full Moon the 15th day, at 50 minutes past 11 night.

Last quarter the 22d day, at 1 minute past 4 afternoon.

New Moon the 30th day, at 2 minutes before 1 morning.

M D	Sundays & other remark. days.	☉ rises	☉ sets	☉'s declin.	☽'s declin.	☽ rises & sets	☽ South	Clock aft. ☉	
1	Nicomede	3 51	8 8	22 n 0	28 n 12	9 a 59	0 a 50	2' 43"	
2	[T. d. m.	3 52	8 8	22 8	28 10	10 48	1 46	2 34	
3	Oxf. T.e. Cam.	3 51	8 9	22 16	26 41	11 22	2 38	2 24	
4	K. Geo. 3 born	3 50	8 10	22 24	23 59	11 45	3 28	2 15	
5	Duke of Cum.b	Bonifa.	8 11	22 31	20 16	morn	4 14	2 4	
6	Whit Sunday	3 48	8 12	22 37	15 47	0 3	4 57	1 54	
7	Whit Monday	3 48	8 12	22 43	10 44	0 16	5 38	1 43	
8	Whit Tuesday	3 47	8 13	22 49	5 17	0 28	6 17	1 32	
9	Ember Week	3 46	8 14	22 55	0 s 25	0 38	6 57	1 21	
10		3 46	8 14	23 0	6 11	0 48	7 38	1 10	
11	St. Barnabas	3 45	8 15	23 4	11 51	0 58	8 21	0 58	
12		3 45	8 15	23 8	17 11	1 10	9 8	0 46	
13	Trinity Sunday	3 44	8 16	23 12	21 54	1 26	10 0	0 34	
14		3 44	8 16	23 16	25 35	1 47	10 58	0 22	
15		3 44	8 16	23 19	27 49	☽ rises	morn	0 10	
16	Oxf. T. begins	3 44	8 16	23 21	28 17	9 a 46	0 0	0 b. 3	
17	Alban: Cor.Ch.	3 43	8 17	23 23	26 48	10 29	1 3	0 16	
18	Trin. T. begins	3 43	8 17	23 25	23 29	10 57	2 6	0 29	
19		3 43	8 17	23 26	18 41	11 15	3 5	0 41	
20	2 Sun. af. Trin	Tr. Ed.	8 17	23 27	12 50	11 32	3 59	0 54	
21	Longest Day	3 43	8 17	23 28	6 22	11 44	4 50	1 7	
22		3 43	8 17	23 28	0 n 19	11 56	5 38	1 20	
23		3 43	8 17	23 28	6 52	morn	6 25	1 33	
24	Nati.St. J.Bapt.	3 43	8 17	23 27	12 59	0 8	7 11	1 46	
25		3 43	8 17	23 26	18 25	0 22	8 0	1 59	
26		3 44	8 16	23 24	22 52	0 40	8 50	2 12	
27	2 Sun. af. Trin	3 44	8 16	23 22	26 6	1 5	9 43	2 24	
28		3 44	8 16	23 20	27 56	1 38	10 37	2 37	
29	St. Peter	3 45	8 15	23 17	28 18	2 24	11 32	2 49	
30		3 45	8 15	23 14	27 12	☽ sets	0 a 26	3 1	
M D	Day increas.	Length of day	Helioc. long. ♀	Helioc. long. ♀	Helioc. long. ♂	Helioc. long. ☉	Helioc. long. ♀	Helioc. long. ♀	☽ sets
1	8 32	16 16	7m 31	8m 40	5 19	10 f 12	28 25	17 8	0 n 54
7	8 40	16 24	7 44	9 8	9 8	15 57	7 54	15 55	0 29
13	8 48	16 32	7 57	9 35	12 56	21 40	17 32	9 44	0 4
19	8 50	16 34	8 9	10 3	16 43	27 24	27 17	0 m 1	1 39
25	8 50	16 34	8 22	10 31	20 30	3 7	7 3	18 5	1 14

1802.

June.

19

M D	Daylig. begins	Daylig. ends	Durat. twilig.	Pl. D's node	h's latitude	u's latitude	δ's latitude	♀'s latitude	♂'s latitude
1				16 33	1 n 46	1 n 7	1 s 29	1 n 3	1 n 59
7				16 14	1 46	1 6	1 29	1 14	2 5
13	All	day	light.	15 55	1 45	1 5	1 28	1 24	1 44
19				15 36	1 44	1 5	1 27	1 32	0 58
25				15 17	1 44	1 4	1 25	1 38	0 s 59
M D	☉'s longitude	☉'s long.	☉'s latitude	h's long.	u's long.	δ's long.	♀'s long.	♂'s long.	
1	11 10 12 2	21 11 48	4 n 59	1 m 20	28 6	13 18	29 11 46	25 11 18	
2	11 9 31	4 28	4 46	1 23	28 13	14 3	1 02	0 27 13	
3	12 6 58	16 53	4 20	1 26	28 20	14 48	2 13	29 4	
4	13 4 24	29 3	3 41	1 29	28 27	15 32	3 26	0 25 50	
5	14 1 4	11 2	2 54	1 33	28 34	16 17	4 39	2 34	
C	14 50 12	22 53	1 59	1 36	28 41	17 2	5 52	4 17	
7	15 56 35	4 m 42	1 0	1 40	28 48	17 46	7 5	5 58	
8	16 53 56	16 32	0 s 3	1 44	28 56	18 31	8 18	7 36	
9	17 51 17	28 30	1 6	1 47	29 3	19 15	9 31	9 11	
10	18 48 36	10 41	2 7	1 51	29 11	19 59	10 44	10 43	
11	19 45 55	23 10	3 3	1 54	29 18	20 43	11 57	12 33	
12	20 43 12	6 m 1	3 52	1 58	29 26	21 27	13 10	13 40	
C	21 40 29	19 17	4 30	2 2	29 34	22 11	14 23	15 3	
14	22 37 44	2 57	4 54	2 6	29 42	22 55	15 36	16 24	
15	23 34 59	17 0	5 1	2 10	29 51	23 39	16 49	17 42	
16	24 32 14	1 22	4 49	2 15	29 59	24 23	18 2	18 58	
17	25 29 28	15 56	4 19	2 19	0 m 8	25 7	19 15	20 10	
18	26 26 42	c 35	3 31	2 23	0 16	25 51	20 28	21 19	
19	27 23 56	15 12	2 30	2 28	0 25	26 35	21 40	22 26	
C	28 21 10	29 4	1 19	2 32	0 34	27 19	22 53	23 30	
21	29 18 23	14 0	0 4	2 37	0 43	28 2	24 6	24 30	
22	30 15 36	28 5	1 n 10	2 42	0 52	28 46	25 18	25 26	
23	1 12 50	11 57	2 19	2 47	1 1	29 29	26 31	26 19	
24	2 10 4	25 35	3 19	2 52	1 10	0 13	27 44	27 9	
25	3 7 17	9 8	4 7	2 57	1 19	0 56	28 56	27 56	
26	4 4 31	22 15	4 40	3 2	1 29	1 39	0 9	28 39	
C	5 1 45	5 11 7	4 59	3 7	1 38	2 22	1 22	29 17	
28	5 58 59	18 6	5 2	3 12	1 48	3 5	2 34	29 51	
29	6 56 13	0 24 3	4 50	3 17	1 57	3 48	3 47	0 21	
30	7 53 27	13 8	4 24	3 22	2 7	4 31	5 0	0 48	
M D	u's sets	δ's rises	♀'s sets	♂'s sets	h's declin.	u's declin.	δ's declin.	♀'s declin.	♂'s declin.
1	0 m 39	1 m 54	9 a 50	9 a 37	12 n 40	13 n 12	3 n 53	24 n 31	25 n 23
7	0 16	1 37	9 57	10 0	12 32	13 56	5 37	24 31	25 25
13	1 a 53	1 19	10 1	10 7	12 24	12 39	7 18	24 54	24 21
19	1 r 30	1 2	10 1	9 59	12 14	12 21	8 55	23 15	22 34
25	11 7	0 45	9 59	9 42	12 3	12 1	10 29	22 0	20 27

## THE LUNATIONS.

First quarter the 8th day, at 57 minutes past 4 morning.

Full Moon the 15th day, at 28 minutes past 7 morning.

Last quarter the 21st day, at 22 minutes past 10 night.

New Moon the 29th day, at 4 minutes past 3 afternoon.

M	Sundays & other	☉	☉	☉'s	☾'s	☾ rises	☾	Clock
D	remark. days	rises	sets	declin.	declin.	& sets	South	bef. ☉
1		3 46	8 14	23 n 10	24 n 48	9 a 43	1 a 16	3' 13"
2	Vifita. of V. M.	3 46	8 14	23 6	21 20	10 3	2 4	3 25
3	Dog days begin	3 47	8 13	23 2	17 2	10 18	2 48	3 37
4	Sun. of Trin.	3 47	8 13	22 57	12 6	10 29	3 29	3 48
5	Trin. St. Mch.	3 48	8 12	22 52	6 46	10 39	4 8	3 59
6	Cam. C. O. Midf.	3 49	8 11	22 46	1 10	10 48	4 47	4 9
7	Trin. Ter. ends	3 49	8 11	22 40	4 s 31	10 58	5 27	4 19
8	[Tho. à Becket	3 50	8 10	22 34	10 8	11 9	6 8	4 29
9	Camb. T. ends	3 51	8 9	22 27	15 31	11 24	6 53	4 38
10		3 52	8 8	22 20	20 22	11 43	7 42	4 47
11	Sun. of Trin.	3 53	8 7	22 12	24 24	morn	8 36	4 56
12	Oxford Act	3 54	8 6	22 4	27 12	0 10	9 35	5 4
13		3 55	8 5	21 56	28 23	0 52	10 39	5 11
14		3 56	8 4	21 47	27 38	1 53	11 43	5 18
15	Swithin	3 57	8 3	21 38	24 56	☾ rises	morn	5 25
16		3 58	8 2	21 29	20 27	9 a 14	0 45	5 31
17	Oxford Ter. e.	3 59	8 1	21 19	14 45	9 32	1 43	5 37
18	Sun. aft. Trin.	4 0	8 0	21 9	8 13	9 46	2 38	5 42
19		4 1	7 59	20 58	1 20	9 59	3 28	5 47
20	Margaret	4 3	7 57	20 47	5 n 27	10 10	4 17	5 51
21		4 4	7 56	20 36	11 49	10 25	5 4	5 54
22	Magdalen	4 5	7 55	20 25	17 28	10 41	5 53	5 58
23		4 7	7 53	20 13	22 8	11 4	6 43	6 0
24	[St. James	4 8	7 52	20 0	25 38	11 34	7 35	6 2
25	St. Anne	4 9	7 51	19 48	27 45	morn	8 29	6 4
26		4 11	7 49	19 35	28 26	0 15	9 23	6 4
27		4 12	7 48	19 22	27 39	1 11	10 17	6 5
28		4 14	7 46	19 8	25 34	2 17	11 9	6 4
29		4 15	7 45	18 54	22 20	☾ sets	11 57	6 4
30		4 17	7 43	18 40	18 12	8 a 22	0 a 43	6 2
31		4 18	7 42	18 25	13 24	8 34	1 25	6 0
M	Day	Length	Helioc.	Helioc.	Helioc.	Helioc.	Helioc.	☾
D	decreaf.	of day	long. ♀	long. ♀	long. ♂	long. ☉	long. ♀	sets
1	0 6	16 28	8 m 34	10 m 58	24 17	8 v 51	16 m 47	4 f 57
7	0 12	16 22	8 47	10 26	28 2	14 34	26 31	21 27
13	0 24	16 10	9 0	11 53	1 v 46	20 17	6 m 14	8 v 19
19	0 36	15 58	9 12	12 21	5 29	26 1	15 56	26 21
25	0 52	15 42	9 25	12 48	9 10	1 m 44	25 36	16 m 28

1802.

July.

21

M D	Daylig. begins	Daylig. ends	Durat. twilig.	Pl. D's node	h's latitude	u's latitude	δ's latitude	♀'s latitude	♂'s latitude
1				14 35 58	1 n 43	1 n 3	1 s 23	1 n 41	1 s 33
7	All	day	light	14 39	1 43	1 3	1 21	1 41	3 4
13				14 20	1 42	1 2	1 18	1 39	4 21
19				14 1	1 42	1 2	1 15	1 33	4 56
25	0 45	11 10	3 20	13 42	1 42	1 2	1 11	1 25	4 32
M D	☉'s longitude	☌'s long.	D's latitude	h's long.	u's long.	δ's long.	♀'s long.	♂'s long.	
1	8 50 40	25 52 1	3 n 47	3 m 28	2 m 17	5 8 14	6 12	1 10	
2	9 47 54	7 24	3 0	3 33	2 27	5 57	7 25	1 30	
3	10 45 7	19 18	2 5	3 39	2 37	6 39	8 37	1 43	
C	11 42 21	1 m 7	1 5	3 44	2 48	7 22	9 49	1 49	
5	12 39 34	12 54	0 2	3 50	2 58	8 4	11 2	1 R 51	
6	13 36 47	24 43	1 s 1	3 55	3 8	8 47	12 14	1 50	
7	14 33 59	6 40	2 2	4 1	3 19	9 29	13 26	1 45	
8	15 31 12	18 50	2 59	4 7	3 30	10 11	14 38	1 30	
9	16 28 24	1 m 18	3 49	4 3	3 40	10 53	15 51	1 22	
10	17 25 36	14 9	4 28	4 9	3 51	11 35	17 3	1 2	
11	18 22 48	27 27	4 55	4 5	4 1	12 17	18 15	0 38	
12	19 20 1	11 11	5 7	4 1	4 12	12 59	19 27	0 10	
13	20 17 13	25 23	5 0	4 37	4 23	13 41	20 39	29 39	
14	21 14 25	9 58	4 33	4 43	4 34	14 22	21 51	29 5	
15	22 11 38	24 50	3 49	4 49	4 45	15 4	23 3	28 28	
16	23 8 52	9 49	2 47	4 56	4 56	15 45	24 15	27 48	
17	24 6 6	24 48	1 35	5 2	5 7	16 27	25 27	27 7	
C	25 3 20	9 38	0 16	5 8	5 18	17 8	26 39	26 26	
19	26 0 35	24 13	1 n 3	5 15	5 30	17 49	27 51	25 46	
20	26 57 51	8 29	2 16	5 22	5 41	18 30	29 3	25 6	
21	27 55 8	22 25	3 19	5 28	5 53	19 11	om 15	24 27	
22	28 52 26	6 8	4 9	5 35	6 4	19 52	1 26	23 49	
23	29 49 45	19 19	4 45	5 41	6 16	20 33	2 38	23 14	
24	0 47 5	2 19	5 5	5 48	6 27	21 14	3 50	22 43	
C	1 44 26	15 5	5 10	5 55	6 39	21 54	5 1	22 17	
26	2 41 48	27 37	4 59	6 2	6 50	22 35	6 12	21 55	
27	3 39 11	9 58	4 35	6 9	7 2	23 15	7 24	21 38	
28	4 36 35	22 8	3 58	6 15	7 14	23 55	8 35	21 25	
29	5 34 0	4 10	3 11	6 22	7 26	24 35	9 47	21 17	
30	6 31 25	16 4	2 16	6 28	7 38	25 15	10 58	21 18	
31	7 28 52	27 54	1 16	6 35	7 50	25 55	12 10	21 27	
M D	☍'s sets	☌'s rises	♀'s sets	♂'s sets	h's declin.	u's declin.	δ's declin.	♀'s declin.	♂'s declin.
1	10 44	om 29	9 54	9 16	11 n 51	10 n 39	11 n 59	20 n 22	18 n 24
7	10 21	0 12	9 45	8 43	11 38	11 17	13 24	18 25	16 48
13	9 59	11 56	9 37	8 3	11 25	10 53	14 43	16 11	15 59
19	9 36	11 41	9 25	rises	11 11	10 28	15 59	13 41	16 9
25	9 14	11 27	9 14	3 m 32	10 56	10 2	17 7	11 0	17 8

## The LUNATIONS.

First quarter the 6th day, at 55 minutes past 6 afternoon.

Full Moon the 13th day, at 48 minutes past 2 afternoon.

Last quarter the 20th day, at 14 minutes past 7 morning.

New Moon the 28th day, at 0 minutes past 7 morning.

M D	Sundays & other remark. days	☉ rises	☉ sets	☉'s declin.	☾'s declin.	☾ rises & sets	☾ South	Clock bef. ☉	
1	Sun. af. Trin. [Lammas Day]	4 20	7 40	18 n 10	8 n 8	8 a 45	2 a 5	5 57	
2		4 21	7 39	17 55	8 35	8 56	2 44	5 54	
3		4 23	7 37	17 40	8 4	9 5	3 23	5 50	
4		4 24	7 36	17 24	8 40	9 15	4 3	5 46	
5		4 26	7 34	17 8	14 3	9 28	4 46	5 40	
6	Transfiguration	4 28	7 32	16 52	19 0	9 43	5 32	5 35	
7	St. Amelia bor.	4 31	7 31	16 35	23 14	10 7	6 23	5 28	
8	Sun. af. Tri.	4 31	7 29	16 19	26 26	10 41	7 19	5 21	
9		4 33	7 27	16 2	28 14	11 31	8 19	5 14	
10	St. Lawrence	4 35	7 25	15 44	28 17	morn	9 22	5 5	
11	Duch. Brunf. b.	Do. d. c.	7 24	15 27	26 25	0 42	10 26	4 57	
12	Pr. of Wales b.	4 38	7 22	15 9	22 40	2 13	11 26	4 47	
13	Old Lammas	4 40	7 20	14 51	17 22	☾ rises	morn	4 37	
14	[Assumption]	4 42	7 18	14 33	10 57	7 a 52	0 24	4 27	
15	Sun. af. Trin.	4 43	7 17	14 14	3 56	8 6	1 18	4 16	
16	D. of York b.	4 45	7 15	13 55	3 n 10	8 18	2 9	4 4	
17		4 47	7 13	13 36	9 57	8 32	2 59	3 52	
18		4 49	7 11	13 17	16 3	8 50	3 49	3 40	
19		4 50	7 10	12 58	21 8	9 10	4 40	3 26	
20		4 52	7 8	12 38	25 0	9 39	5 33	3 13	
21	D. of Claren. b.	4 54	7 6	12 18	27 29	10 17	6 28	2 59	
22	Sun. af. Tri.	4 56	7 4	11 58	28 30	11 8	7 23	2 45	
23		4 58	7 2	11 38	28 3	morn	8 17	2 30	
24	St. Bartholom.	5 0	7 0	11 18	26 15	0 11	9 9	2 14	
25		5 2	6 58	10 57	23 16	1 23	9 59	1 59	
26		5 3	6 57	10 36	19 21	2 27	10 45	1 43	
27		5 5	6 55	10 15	14 41	3 51	11 29	1 26	
28	St. Augustine	5 7	6 53	9 54	9 30	☾ sets	0 a 10	1 9	
29	Sun. a. Tri.	5 9	6 51	9 33	4 0	7 a 8	0 49	0 52	
30	[J. Bap. beh.	5 11	6 49	9 12	1 40	7 18	1 28	0 35	
31		5 13	6 47	8 50	7 19	7 29	2 8	0 7	
M D	Day decreas.	Length of day	Helioc. long. ♀	Helioc. long. ♀	Helioc. long. ♂	Helioc. long. ♂	Helioc. long. ♀	Helioc. long. ♀	☾ sets
1	1	14 15 20	9 m 40	13 m 20	13 v 27	8 m 26	6 m 50	14 x 7	8 a 51
7	1	32 15 2	9 52	13 48	17 5	14 11	16 26	12 v 53	8 29
13	1	54 14 40	10 5	14 15	20 42	19 57	26 1	16 x 53	8 7
19	2	14 14 20	10 18	14 43	24 16	25 43	5 f 34	24 11 22	7 46
25	2	38 13 56	10 30	15 10	27 49	28 50	15 6	0 R 18	7 25

1802.

August.

23

M D	Day-lig begins	Day-lig ends	Durat. twilig.	Pl. (C's node	h's latitude	u's latitude	δ's latitude	♀'s latitude	♂'s latitude
1	1 23	10 30	2 56	13 20	1 n 42	1 n 2	1 s 6	1 n 12	3 s
7	1 46	10 13	2 43	13 1	1 42	1 1	1 2	0 57	1 2
13	2 7	9 52	2 32	12 42	1 42	1 1	0 51	0 40	on
19	2 27	9 32	2 23	12 22	1 42	1 1	0 52	0 21	1
25	2 46	9 13	2 15	12 3	1 42	1 1	0 46	0 0	1 4
M D	☉'s longitude	☌'s long.	☌'s latitude	h's long.	u's long.	δ's long.	♀'s long.	♂'s long.	
1	Ω 8 26	19 9 40	0 n 12	6 42	8 2	26 8 35	13 21	21 23	
2	9 23	47 21 27	0 s 52	6 49	8 14	27 15	14 32	21 5	
3	10 21	16 3 17	1 55	6 56	8 26	27 54	15 43	22 2	
4	11 18	45 15 15	2 53	7 3	8 38	28 33	16 54	22 5	
5	12 16	16 27 25	3 45	7 10	8 50	29 12	18 5	23 3	
6	13 13	46 9 51	4 2	7 17	9 2	29 51	19 16	24 2	
7	14 11	18 22 39	4 57	7 25	9 15	0 130	20 27	25 1	
C	15 8	50 5 52	5 13	7 32	9 27	1 9	21 38	26 1	
9	16 6	23 19 32	5 12	7 39	9 40	1 47	22 49	27 1	
10	17 3	57 3 40	4 52	7 46	9 52	2 25	24 0	28 2	
11	18 1	32 18 14	4 14	7 53	10 5	3 3	25 11	29 4	
12	18 59	8 3 17	3 17	8 0	10 17	3 41	26 22	1 1	
13	19 56	45 18 17	2 6	8 8	10 30	4 19	27 32	2 2	
14	20 54	23 3 29	0 45	8 15	10 43	4 56	28 43	4	
C	21 52	3 18 35	on 38	8 21	10 55	5 34	29 5	5 3	
16	22 49	44 3 27	1 58	8 30	11 8	6 11	1 4	7 1	
17	23 47	26 17 58	3 8	8 38	11 20	6 49	2 14	9	
18	24 45	11 2 8	4 4	8 45	11 33	7 26	3 24	10 4	
19	25 42	57 15 48	4 45	8 53	11 46	8 3	4 34	12 3	
20	26 40	44 29 6	5 9	9 0	11 59	8 40	5 44	14 2	
21	27 38	34 12 11	5 17	9 8	12 11	9 16	6 54	16 2	
C	28 36	25 24 40	5 9	9 15	12 24	9 53	8 4	18 1	
23	29 34	18 7 55	4 47	9 23	12 36	10 29	9 14	20 1	
24	0 32	13 19 11	4 12	9 30	12 49	11 6	10 24	22 1	
25	1 30	10 1 1	3 26	9 38	13 2	11 42	11 33	24 1	
26	2 28	9 13 3	2 32	9 45	13 15	12 18	12 43	26 1	
27	3 26	9 24 52	1 32	9 53	13 28	12 53	13 52	28 1	
28	4 24	11 6 39	0 27	10 0	13 41	13 29	15 2	on 2	
C	5 22	14 18 27	0 s 38	10 8	13 54	14 4	16 11	2	
30	6 20	19 0 17	1 42	10 15	14 7	14 39	17 21	4	
31	7 18	26 12 12	2 42	10 23	14 20	15 14	18 30	6	
M D	u's sets	δ's rises	♀'s sets	♂'s rises	h's declin.	u's declin.	δ's declin.	♀'s declin.	♂'s declin.
1	8 a 49	11 a 10	9 a 0	3 m 3	10 n 38	9 n 31	18 n 21	7 n 39	18 n 4
7	8 27	10 58	8 17	2 51	10 22	9 3	19 16	4 40	19 4
13	8 6	10 46	8 34	3 0	10 6	8 35	20 6	1 36	19 4
19	7 46	10 34	8 21	3 28	9 49	8 6	20 50	1 s 30	18
25	7 28	10 23	8 8	4 12	9 32	7 37	21 28	4 35	15

## The LUNATIONS.

First quarter the 5th day, at 41 minutes past 6 morning.

Full Moon the 11th day, at 46 minutes past 10 night.

Last quarter the 18th day, at 36 minutes past 7 afternoon.

New Moon the 26th day, at 56 minutes past 11 night.

M	Sundays & other remark. days	☉ rises	☉ sets	☉'s declin.	☽'s declin.	☽ rises & sets	☽ South	Clock aft. ☉	
1	Grace	5 15	6 45	8 n 29	12 s 45	7 a 42	2 s 50	0 2	
2	Lon. burnt 1666	5 17	6 43	8 7	17 47	7 55	3 34	0 20	
3		5 19	6 41	7 45	22 11	8 15	4 22	0 39	
4		5 21	6 39	7 23	25 39	8 44	5 15	0 50	
5	12 Sun. & Trin.	5 23	6 37	7 1	27 5	9 25	6 12	1 18	
6		5 24	6 36	6 38	28 32	10 20	7 13	1 37	
7	Enurachus	5 26	6 34	6 10	27 26	11 45	8 14	1 57	
8	Nativity V.M.	5 28	6 32	5 53	24 31	morn	9 15	2 18	
9		5 30	6 30	5 31	19 56	1 18	10 13	2 38	
10		5 32	6 28	5 8	14 1	2 53	11 9	2 59	
11		5 34	6 26	4 45	7 13	☉ rises	morn	3 19	
12	13 Sun. af. Tri.	5 36	6 24	4 22	0 1	6 a 32	0 1	3 40	
13		5 38	6 22	3 59	7 n 7	6 46	0 53	4 1	
14	Holy Cross	5 40	6 20	3 36	13 43	7 2	1 45	4 22	
15	Ember Week	5 42	6 18	3 13	19 24	7 22	2 37	4 43	
16		5 44	6 16	2 50	23 52	7 46	3 32	5 4	
17	Lambert	5 46	6 14	2 27	26 54	8 22	4 27	5 25	
18		5 48	6 12	2 4	28 22	9 10	5 24	5 46	
19	14 Sun. af. Tri.	5 50	6 10	1 40	28 19	10 10	6 20	6 7	
20		5 52	6 8	1 17	26 5	11 20	7 13	6 28	
21	St. Matthew	5 54	6 6	0 54	24 8	morn	8 4	6 49	
22	K. Geo. III. cr.	5 56	6 4	0 30	20 27	0 34	8 52	7 10	
23		5 58	6 2	0 7	15 58	1 48	9 36	7 31	
24		6 0	6 0	0 16	10 55	3 1	10 18	7 51	
25		6 2	5 58	0 40	5 23	4 12	10 58	8 12	
26	15 Sun. af. Tri.	Cypri.	5 57	1 3	0 s 12	☽ sets	11 37	8 32	
27	[O. Holy Rood	6 5	5 55	1 27	5 53	5 a 47	0 a 17	8 52	
28	[Wirtm. b.	6 7	5 53	1 50	11 25	6 0	0 59	9 12	
29	St. Michael; Da.	6 9	5 51	2 14	16 35	6 13	1 42	9 31	
30	St. Jerome	6 11	5 49	2 37	21 9	6 31	2 29	9 51	
M	Day	Length	Helioc.	Helioc.	Helioc.	Helioc.	Helioc.	Helioc.	h
D	decreaf.	of day	long ♀	long ♀	long ♂	long. ☉	long. ♀	long. ♂	rises
1	3 4	13 30	10 m 45	15 m 43	18 55	8 x 17	26 11	7 m 0	5 m 24
7	3 26	13 8	10 58	16 10	5 24	14 6	5 h 11	7 m 23	5 5
13	3 50	12 44	11 10	16 37	8 50	19 56	15 10	23 40	4 47
19	4 14	12 20	11 23	17 5	12 15	25 47	14 39	12 m 19	4 29
25	4 38	11 56	11 35	17 32	15 37	19 40	4 m 7	29 29	4 12

1802.

September.

25

M D	Day begins	Day ends.	Durat. twilig.	Pl. C's node	h's latitude	u's latitude	δ's latitude	♀'s latitude	♂'s latitude
1	3 06	8 55	2 8	11 41	11 42	11 1	0 38	0 28	11 41
7	3 22	8 37	2 4	11 22	11 42	1 1	0 31	0 52	1 2
13	3 37	8 23	2 0	11 3	11 43	1 2	0 24	1 18	0 41
19	3 51	8 8	1 58	10 44	11 43	1 2	0 16	1 44	0 5
25	4 4	7 54	1 56	10 25	11 44	1 2	0 7	2 9	0 31
M D	☉'s longitude	☌'s long.	☌'s latitude	h's long.	u's long.	δ's long.	♀'s long.	♂'s long.	
1	12 8 10 34	24 15	3 s 36	10 12 31	14 12 33	15 11 4	19 12 39	7 12 58	
2	9 14 43	6 11 30	4 2	10 38	14 46	16 23	20 48	9 5	
3	10 12 54	18 58	4 54	10 4	14 59	16 57	21 57	11 48	
4	11 11 6	1 45	5 13	10 53	15 12	17 31	23 6	13 40	
C	12 9 20	11 53	5 18	11 1	15 25	18 5	24 15	15 32	
6	13 7 35	28 25	5 5	11 8	15 38	18 39	25 24	17 23	
7	14 5 51	12 21	4 34	11 16	15 51	19 12	26 33	19 13	
8	15 4 9	26 43	3 45	11 24	16 4	19 45	27 42	21 2	
9	16 2 29	11 27	2 40	11 31	16 17	20 17	28 58	22 45	
10	17 0 50	26 27	1 24	11 39	16 50	20 30	29 58	24 35	
11	17 59 13	11 37	0 0	11 46	16 45	21 22	1 6	26 20	
C	18 57 38	26 47	11 23	11 54	16 50	21 55	2 14	28 4	
13	19 55 4	11 47	2 40	12 1	17 5	22 27	3 22	29 47	
14	20 54 33	25 30	3 44	12 9	17 22	22 58	4 30	1 29	
15	21 53 3	10 49	4 31	12 18	17 35	23 29	5 37	3 10	
16	22 51 36	24 41	5 4	12 24	17 48	24 0	6 45	4 50	
17	23 50 11	8 11 6	5 17	12 31	18 1	24 31	7 52	6 29	
18	24 48 48	21 6	5 13	12 39	18 14	25 2	9 0	8 7	
C	25 47 28	3 42	4 54	12 46	18 26	25 33	10 7	9 44	
20	26 46 10	16 0	4 22	12 53	18 39	26 3	11 14	11 20	
21	27 44 54	28 4	3 39	13 1	18 52	26 33	12 21	12 55	
22	28 43 41	9 58	2 47	13 8	19 5	27 2	13 27	14 28	
23	29 42 30	21 47	1 48	13 16	19 18	27 31	14 34	16 1	
24	0 41 21	3 33	0 45	13 23	19 31	28 0	15 41	17 33	
25	1 40 14	15 21	0 20	13 3	19 44	28 29	16 47	19 4	
C	2 39 10	27 13	1 25	13 38	19 57	28 57	17 53	20 34	
27	3 38 7	9 10	2 26	13 45	20 9	29 24	18 59	22 3	
28	4 37 7	21 16	3 21	13 52	20 22	29 52	20 4	23 32	
29	5 36 9	3 31	4 8	14 0	20 35	30 19	21 10	25 0	
30	6 35 12	15 58	4 44	14 7	20 47	0 47	22 16	26 26	
M D	☌'s rises	♂'s rises	♀'s sets	♂'s sets	h's declin.	u's declin.	δ's declin.	♀'s declin.	♂'s declin.
1	5 45	10 11	7 54	6 59	9 13	7 2	22 5	8 8	10 11
7	5 32	10 1	7 43	6 53	8 56	6 32	22 31	11 4	5 3
13	5 18	9 51	7 31	6 46	8 39	6 2	22 51	13 52	0 50
19	5 4	9 41	7 20	6 36	8 22	5 32	23 8	16 31	3 4
25	4 49	9 30	7 11	6 26	8 6	5 23	23 21	18 56	8



## The LUNATIONS.

First quarter the 4th day, at 36 minutes past 4 afternoon.

Full Moon the 11th day, at 58 minutes past 7 morning.

Last quarter the 18th day, at 56 minutes past 11 morning.

New Moon the 26th day, at 34 minutes past 4 afternoon.

M	Sundays & other	☉	☉	☉'s	☉'s	☉ rises	☉	Clock
D	remark. days	rises	sets	declin.	declin.	& sets	South	aft. ☉
1	Remigius	6 13	5 47	3 0	24 51	6 a 56	3 a 20	10 10
2		6 15	5 45	3 24	27 22	7 32	4 15	10 29
C	16 Sun. af. Tri.	6 17	5 43	3 47	28 27	8 26	5 13	10 48
4		6 19	5 41	4 10	27 53	9 37	6 13	11 6
5		6 21	5 39	4 34	25 37	11 1	7 12	11 24
6	Faith	6 23	5 37	4 57	21 44	morn	8 9	11 42
7		6 25	5 35	5 20	16 29	0 32	9 3	11 59
8		6 27	5 33	5 43	10 12	2 4	9 56	12 16
9	Denys	6 29	5 31	6 6	3 16	3 39	10 47	12 32
C	27 Sun. a. Tri.	6 31	5 29	6 29	3 n 52	5 2	11 38	12 49
11	Olav. M. c. [Ox. &	C. T. b.	5 27	6 51	10 45	☉ rises	morn	13 4
12		6 35	5 25	7 14	16 56	5 a 32	0 30	13 19
13	Tru. K. Edw. C.	6 37	5 23	7 37	22 3	5 55	1 25	13 34
14		6 39	5 21	7 59	25 46	6 26	2 21	13 48
15		6 41	5 19	8 22	27 53	7 9	3 19	14 2
16	[Etheldred	6 43	5 17	8 44	28 23	8 7	4 17	14 15
C	28 Sun. af. Tri.	6 44	5 16	9 6	27 19	9 14	5 13	14 27
18	St. Luke	6 46	5 14	9 28	24 57	10 28	6 14	14 39
19		6 48	5 12	9 50	21 30	11 41	6 55	14 50
20		6 50	5 10	10 11	17 13	morn	7 40	15 1
21		6 52	5 8	10 33	12 20	0 54	8 23	15 11
22		6 54	5 6	10 55	7 0	2 6	9 3	15 20
23		6 56	5 4	11 16	1 25	3 16	9 42	15 28
C	19 Sun. af. Tri.	6 58	5 2	11 37	4 8	4 27	10 22	15 36
25	K. Geo. 3. acc.	Crispin	5 0	12 53	9 53	5 39	11 3	15 43
26	K. Geo. 3. proc.	7 2	4 59	12 19	15 11	☉ sets	11 46	15 50
27		7 3	4 58	12 39	19 59	4 a 43	0 a 32	15 56
28	St. Sim. & Jude	7 5	4 57	12 59	23 56	5 7	1 22	16 1
29		7 7	4 55	13 20	26 45	5 40	2 16	16 5
30		7 9	4 51	13 39	28 11	6 28	3 14	16 8
C	20 Sun. af. Tri.	7 11	4 40	13 59	27 59	7 33	4 12	16 11
M	Day	Length	Helioc.	Helioc.	Helioc.	Helioc.	Helioc.	H
D	decreaf.	of day	long. ♀	long. ♀	long. ♂	long. ☉	long. ♀	rises
1	5 0	11 34	11 48	18 48	18 58	7 34	13 36	16 0
7	5 24	11 10	12 0	18 27	22 16	13 30	23 6	2 3 36
13	5 48	10 46	12 13	18 55	25 32	19 26	2 35	20 13
19	6 10	10 24	12 26	19 22	28 47	25 23	12 6	9 31
25	6 36	9 58	12 38	19 49	1 50	1 22	21 37	1 40

1802.

October.

27

M D	Daylig. begins	Daylig. ends	Durat. twilig.	Pl. (C's node	h's latitude	U's latitude	δ's latitude	♀'s latitude	♂'s latitude
1	4 18	7 42	1 56	10 36	1 45	1 3	0 12	2 34	1 8 10
7	4 31	7 29	1 55	9 47	1 46	1 3	0 12	2 57	2 0
13	4 43	7 17	1 54	9 28	1 46	1 4	0 23	3 1	2 31
19	4 55	7 5	1 54	9 9	1 47	1 5	0 35	3 36	2 58
25	5 4	6 56	1 55	8 50	1 48	1 5	0 4	3 50	3
M D	☉'s longitude	☌'s long.	☌'s latitude	h's long.	U's long.	δ's long.	♀'s long.	♂'s long.	
1	7 34 17	28 37	5 8	14 14	21 0	1 14	23 12	27 5	
2	8 33 24	11 30	5 14	14 21	13	1 40	24 20	29 1	
C	9 32 33	24 39	5 5	14 28	25	2 5	25 31	om 4	
4	10 31 43	8 56	4 40	14 35	38	2 30	26 35	7	
5	11 30 55	21 53	3 59	14 42	51	2 55	27 40	3 2	
6	12 30 9	5 59	3 2	14 49	22	3 20	28 45	4 4	
7	13 29 24	20 23	1 52	14 56	22	3 45	29 49	6	
8	14 28 41	5 4	0 34	15 3	22	4 9	30 53	7 2	
9	15 28 1	19 56	0 47	15 10	22	4 32	1 56	8 38	
C	16 27 22	4 53	2 5	15 17	22	4 55	2 5	9 5	
11	17 26 45	19 47	3 14	15 24	23	5 17	4 2	11 0	
12	18 26 10	4 28	4 10	15 31	23	5 39	5 5	12 18	
13	19 25 37	18 51	4 48	15 37	23	6 1	6 8	13 26	
14	20 25 6	2 49	5 8	15 44	23	6 22	7 10	14 38	
15	21 24 38	16 21	5 9	15 51	23	6 43	8 11	15 4	
16	22 24 12	29 26	4 55	15 57	24	7 3	9 13	16 48	
C	23 23 48	12 6	4 26	16 4	24	7 22	10 14	17 50	
18	24 23 27	24 25	3 45	16 11	24	7 42	11 15	18 48	
19	25 23 8	6 29	2 55	16 17	24	8 1	12 16	19 48	
20	26 22 51	18 22	1 59	16 24	24	8 19	13 16	20 38	
21	27 22 37	om 9	0 57	16 30	25	8 8	14 15	21 27	
22	28 22 25	11 56	0 8	16 36	25	8 53	15 15	22 18	
23	29 22 15	23 46	1 10	16 43	25	9 9	16 14	22 58	
C	30 22 8	5 44	2 10	16 49	25	9 26	17 13	23 30	
25	1 22 2	17 52	3 6	16 55	25	9 42	18 12	24 1	
26	2 21 59	cm 11	3 54	17 1	26	9 57	19 10	24 26	
27	3 21 58	12 44	4 31	17 7	26	10 11	20 8	24 48	
28	4 21 58	25 29	4 56	17 12	26	10 25	21 5	24 56	
29	5 22 1	8 27	5 5	17 18	26	10 38	22 2	25 R	
30	6 22 5	21 37	4 59	17 24	26	10 50	22 58	24 58	
C	7 22 10	4 59	4 37	17 30	27	11 2	23 53	24 40	
M D	☌'s rises	♂'s rises	♀'s sets	♂'s sets	h's declin.	U's declin.	δ's declin.	♀'s declin.	♂'s declin.
1	4m 35	9 18	7 a 1	6 a 16	7 n 49	4 32	23 30	21 8	11 8 5
7	4 21	9 7	6 53	6 6	7 34	4 2	23 37	23 1	15 20
13	4 6	8 55	6 46	5 55	7 19	3 33	23 42	24 36	18 2
19	3 50	8 42	6 40	5 43	7 4	3 5	23 49	25 52	20 3
25	3 33	8 24	6 36	5 30	6 50	2 38	23 55	26 4	21 4

## The LUNATIONS.

First quarter the 3d day, at 11 minutes past 1 morning.

Full Moon the 9th day, at 47 minutes past 6 evening.

Last quarter the 17th day, at 48 minutes past 7 morning.

New Moon the 25th day, at 55 minutes past 7 morning.

	Sundays & other remark. days	☉ rises	☉ sets	☉'s declin.	☾'s declin.	☾ rises & sets	☾ South	Clock aft. ☉	
1	All Saints	7 13	4 47	14 5 19	20 8 7	8 a 54	5 a 12	16 13	
2	Du. of Kent be.	All Souls	4 46	14 38	22 42	10 19	6 7	16 14	
3	Fra. Sophia born	7 10	4 44	14 57	17 56	11 48	7 0	16 14	
4	K. William lan.	7 18	4 42	15 16	12 8	morn	7 51	16 14	
5	Powder Plot	7 27	4 40	15 34	5 37	1 16	8 40	16 13	
6	M. J. L. L. L.	7 21	4 39	15 53	11 13	2 43	9 29	16 11	
7	St. Andrew	7 23	4 37	16 11	8 2	4 10	10 19	16 8	
8	Fra. Aug. So. b.	7 25	4 35	16 28	14 25	5 37	11 11	16 4	
9	Lord Mayor's d.	7 26	4 34	16 46	19 57	Drises	morn	16 0	
10		7 28	4 32	17 3	24 16	4 a 24	0 6	15 55	
11	St. Martin	7 30	4 30	17 20	27 4	5 0	1 4	15 48	
12	Sam. T. div. m.	7 32	4 28	17 36	28 12	5 54	2 2	15 41	
13	Brutus	7 33	4 27	17 53	27 41	6 59	3 1	15 33	
14	St. Sun. af. Trin.	7 35	4 25	18 9	25 43	8 11	3 56	15 25	
15	Machutus	7 36	4 24	18 24	22 33	9 25	4 47	15 15	
16		7 38	4 22	18 39	18 29	10 40	5 34	15 5	
17	Hugh	7 39	4 21	18 54	13 44	11 51	6 18	14 53	
18		7 41	4 19	19 5	8 32	morn	6 59	14 41	
19		7 42	4 18	19 23	3 3	1 0	7 38	14 28	
20	Edmund	7 44	4 16	19 37	2 35	2 11	8 18	14 14	
21	St. Sun. af. Trin.	7 45	4 15	19 51	8 11	3 21	8 57	13 59	
22	Cecilia	7 46	4 14	20 4	13 35	4 33	9 38	13 44	
23	Clem: Old Mart.	7 48	4 12	20 17	18 33	5 49	10 23	13 27	
24	Duke of Glb. b.	7 49	4 11	20 30	22 48	7 8	11 12	13 10	
25	Cather.	4 10	20 42	26 0	☾ sets	0 a 5	12 52		
26		7 52	4 8	20 53	27 49	4 a 17	1 2	12 34	
27	Advent Sunday	7 53	4 7	21 5	28 1	5 15	2 12	12 14	
28		7 54	4 6	21 16	26 30	6 36	3 11	11 54	
29	St. Mic. Term e.	7 55	4 5	21 26	23 21	8 2	3 58	11 33	
30	St. Andrew	7 56	4 4	21 36	18 49	9 31	4 52	11 12	
vi	Day decreaf.	Length of day	Helioe. long. ♀	Helioe. long. ♀	Helioe. long. ♂	Helioe. long. ☉	Helioe. long. ♀	Helioe. long. ♂	h rises
1	7 0	9 34	12 17 53	20 17 21	5 11 41	8 8 22	2 4 45	2 4 46	2 m 17
7	7 20	9 14	13 5 10	40 8 49	14 24 12	12 18	5 8 5	1 55	1 55
3	7 40	8 54	13 18 21	16 11 55	20 26 21	11 52	11 11 50	1 33	1 33
9	7 58	8 36	13 30 21	43 15 0	26 29 18	27 19 20	11 11	1 11	1 11
5	8 14	8 20	13 43 22	11 18 2	2 11 33	11 3	22 13 6	0 49	0 49

1802.

November.

29

M	Daylig. D begins	Daylig. ends	Durat. twilig.	Pl. Q's node	h's latitude	u's latitude	δ's latitude	♀'s latitude	♂'s latitude
1	5 17	6 43	1 56	8X27	1 n 50	1 n 6	1 n 5	4 s 1	2 s 16
7	5 26	6 34	1 58	8 8	1 51	1 7	1 20	4 3	0 38
13	5 33	6 28	2 0	7 45	1 52	1 8	1 36	3 58	1 n 19
19	5 41	6 19	2 2	7 30	1 54	1 9	1 53	3 44	2 22
25	5 47	6 13	2 4	7 11	1 55	1 10	2 11	3 19	2 26
M	☉'s longitude		☌'s long.	☍'s latitude	h's long.	u's long.	δ's long.	♀'s long.	♂'s long.
D	m 8	22 17	18 32	3 s 56	17 35	27 15	11 13	24 47	24 17
2	9	22 26	2 17	3 16	17 41	27 26	11 23	25 41	23 49
3	10	22 36	16 14	2 2	17 47	27 37	11 32	26 35	23 7
4	11	22 48	0X21	0 50	17 52	27 48	11 41	27 28	22 10
5	12	23 1	14 42	0 n 27	17 58	27 59	11 49	28 20	21 5
6	13	23 16	29 9	1 42	18 4	28 10	11 57	29 12	19 57
C	14	23 32	13 42	2 51	18 9	28 21	12 4	30 3	18 46
8	15	23 50	28 14	3 48	18 14	28 32	12 10	0 53	17 31
9	16	24 9	12 8	39 4	31 18	28 42	12 15	1 4	16 12
10	17	24 30	26 50	4 56	18 24	28 53	12 19	2 32	14 49
11	18	24 53	10 11	43 5	2 18	29 29	3 12	23 3	13 31
12	19	25 17	24 13	4 52	18 34	29 14	12 26	4 7	12 22
13	20	25 44	7 50	19 4	26 18	39 29	24 12	28 4	53 11
C	21	26 12	20 1	3 47	18 44	29 34	12 29	5 38	10 31
15	22	26 42	2 23	2 59	18 48	29 44	12 30	6 22	9 50
16	23	27 15	14 28	2 4	18 53	29 54	12 29	7 5	9 20
17	24	27 49	26 22	1 4	18 57	30 4	12 28	7 47	9 2
18	25	28 24	8 20	0 1	19 2	0 13	12 26	8 29	8 D 56
19	26	29 2	19 57	1 s 1	19 6	0 23	12 23	9 10	9 1
20	27	29 42	1 50	2 1	19 10	0 32	12 19	9 50	9 11
C	28	30 23	13 53	2 56	19 14	0 42	12 14	10 28	9 35
22	29	31 6	26 9	3 44	19 18	0 51	12 9	11 4	10 13
23	30	31 51	8 41	4 23	19 22	1 12	3 11	39 10	58
24	1	32 37	21 31	4 18	19 26	1 10	11 56	12 12	11 46
25	2	33 24	4 38	5 0	19 30	1 19	11 48	12 44	12 37
26	3	34 13	18 0	4 55	19 34	1 28	11 40	13 15	13 35
27	4	35 3	1 35	4 34	19 37	1 37	11 30	13 44	14 39
C	5	35 54	15 21	3 56	19 41	1 46	11 19	14 12	15 48
29	6	36 46	29 13	3 5	19 44	1 55	1 7	14 38	17 0
30	7	37 38	13 10	2 1	19 48	2 4	10 54	15 2	18 14
M	☌ rises	☍ rises	♀ sets	♂ sets	h's declin.	u's declin.	δ's declin.	♀'s declin.	♂'s declin.
1	3 m 14	8 a 2	6 a 35	5 a 9	6 n 35	2 n 7	24 4	27 s 22	21 s 4
7	2 57	7 36	6 33	4 44	6 24	1 41	24 15	27 31	18 2
13	2 39	7 10	6 31	rises	6 13	1 17	24 29	27 20	14 0
19	2 20	6 44	6 29	5 m 54	6 4	0 54	24 46	26 52	12 16
5	2 0	6 18	6 26	5 48	5 56	0 33	25 7	26 10	13 20

## The LUNATIONS.

First quarter the 6th day, at 55 minutes past 6 afternoon.

Full Moon the 13th day, at 48 minutes past 2 afternoon.

Last quarter the 20th day, at 14 minutes past 7 morning.

New Moon the 28th day, at 0 minutes past 7 morning.

M D	Sundays & other remark. days	☉ rises	☉ sets	☉'s declin.	☾'s declin.	☾ rises & sets	☾ South	Clock bef. ☉
1	Sun. af. Trin. [Lammas Day]	4 20	7 40	18 n 10	8 n 8	8 a 45	2 a 5	5 57
2		4 21	7 39	17 55	8 35	8 56	2 44	5 54
3		4 23	7 37	17 40	8 4	9 5	3 23	5 50
4		4 24	7 36	17 24	8 40	9 15	4 3	5 46
5		4 26	7 34	17 8	14 3	9 28	4 46	5 40
6	Transfiguration	4 28	7 32	16 52	19 0	9 43	5 32	5 35
7	Pis. Amelia bor.	N. of J	7 31	16 35	23 14	10 7	6 23	5 28
8	Sun. af. Trin.	4 31	7 29	16 19	26 26	10 41	7 19	5 21
9		4 33	7 27	16 2	28 14	11 31	8 19	5 14
10	St. Lawrence	4 35	7 25	15 44	28 17	morn	9 22	5 5
11	Duch. Brunf. b.	Do. d. c.	7 24	15 27	26 25	0 42	10 26	4 57
12	Pr. of Wales b.	4 38	7 22	15 9	22 40	2 13	11 26	4 47
13	Old Lammas	4 40	7 20	14 51	17 22	☾ rises	morn	4 37
14	[Assumption]	4 42	7 18	14 33	10 57	7 a 52	0 24	4 27
15	Sun. af. Trin.	4 43	7 17	14 14	3 56	8 6	1 18	4 16
16	D. of York b.	4 45	7 15	13 55	3 n 10	8 18	2 9	4 4
17		4 47	7 13	13 36	9 57	8 32	2 59	3 52
18		4 49	7 11	13 17	16 8	8 50	3 49	3 40
19		4 50	7 10	12 58	21 8	9 10	4 40	3 26
20		4 52	7 8	12 38	25 0	9 39	5 33	3 13
21	D. of Claren. b.	4 54	7 6	12 18	27 29	10 17	6 28	2 59
22	Sun. af. Trin.	4 56	7 4	11 58	28 30	11 8	7 23	2 45
23		4 58	7 2	11 38	28 3	morn	8 17	2 30
24	St. Bartholom.	5 0	7 0	11 18	26 15	0 11	9 9	2 14
25		5 2	6 58	10 57	23 16	1 23	9 59	1 59
26		5 3	6 57	10 36	19 21	2 37	10 45	1 43
27		5 5	6 55	10 15	14 41	3 51	11 29	1 26
28	St. Augustine	5 7	6 53	9 54	9 30	☾ sets	0 a 10	1 9
29	Sun. a. Tri.	5 9	6 51	9 33	4 0	7 a 8	0 49	0 52
30	[J. Bap. beh.	5 11	6 49	9 12	1 40	7 18	1 28	0 35
31		5 13	6 47	8 50	7 19	7 29	2 8	0 7
M	Day	Length	Helioc.	Helioc.	Helioc.	Helioc.	Helioc.	H <sub>2</sub>
D	decreaf.	of day	long. ♀	long. ♀	long. ♂	long. ☉	long. ♀	sets
1	14	15 20	9 n 24	13 n 20	13 n 27	8 m 26	6 m 50	14 7
7	32	15 2	9 52	13 48	17 5	14 11	16 26	12 52
3	54	14 40	10 5	14 15	20 42	19 57	26 1	16 8
9	14	14 20	10 18	14 43	24 16	25 43	5 34	24 11
5	38	13 56	10 30	15 10	27 49	28 15	6 6	0 18

M	Day-lig D begins	Day-lig ends	Durat. twilig.	Pl. (C's node	h's latitude	l's latitude	δ's latitude	♀'s latitude	♂'s latitude
1	1 23	10 30	2 56	13 20	1 n 42	1 n 2	1 s 6	1 n 12	3 s 4
7	1 46	10 13	2 43	13 1	1 42	1 1	1 2	0 57	1 28
13	2 7	9 52	2 32	12 42	1 42	1 1	0 51	0 40	0 n 2
19	2 27	9 32	2 23	12 22	1 42	1 1	0 52	0 21	1 8
25	2 46	9 13	2 15	12 3	1 42	1 1	0 46	0 0	1 41
M	C's longitude		C's long.	C's latitude	h's long.	l's long.	δ's long.	♀'s long.	♂'s long.
C	Ω	8 26	19	9 n 10	0 n 12	6 n 42	8 n 2	26 8 35	13 n 21
2	9 23	47	21 27	0 s 52	6 49	8 14	27 15	14 32	21 57
3	10 21	16	3 17	1 55	6 56	8 26	27 54	15 43	22 24
4	11 18	45	15 15	2 53	7 3	8 38	28 33	16 54	22 58
5	12 16	16	27 25	3 45	7 10	8 50	29 12	18 53	23 38
6	13 13	46	9 m 51	4 2	7 17	9 2	29 51	19 16	24 23
7	14 11	18	22 39	4 57	7 25	9 15	0 II 30	20 27	25 14
C	15 8	50	5 52	5 13	7 32	9 27	1 9	21 38	26 12
9	16 6	23	19 32	5 12	7 39	9 40	1 47	22 49	27 16
10	17 3	57	3 54	4 52	7 46	9 52	2 25	24 0	28 26
11	18 1	32	18 14	4 14	7 53	10 5	3 3	25 11	29 49
12	18 59	8	3 9	3 17	8 0	10 17	3 41	26 22	1 Ω
13	19 56	45	18 17	2 6	8 8	10 30	4 19	27 32	2 20
14	20 54	23	3 29	0 45	8 15	10 43	4 56	28 43	4 0
C	21 52	3	18 35	0 n 38	8 23	10 55	5 34	29 5	5 3
16	22 49	44	3 27	1 58	8 30	11 8	6 11	1 4	7 1
17	23 47	26	17 58	3 8	8 38	11 20	6 49	2 14	9 0
18	24 45	11	2 8	4 4	8 45	11 33	7 26	3 24	10 4
19	25 42	57	15 48	4 45	8 53	11 46	8 3	4 34	12 3
20	26 40	44	29 6	5 9	9 0	11 59	8 40	5 44	14 2
21	27 38	34	12 II 3	5 17	9 8	12 11	9 16	6 54	16 2
C	28 36	25	24 40	5 9	9 15	12 24	9 53	8 4	18 1
23	29 34	18	7 25	4 47	9 23	12 36	10 29	9 14	20 1
24	30 32	13	19 11	4 12	9 30	12 49	11 6	10 24	22 1
25	1 30	10	1 Ω 10	3 26	9 38	13 2	11 42	11 33	24 1
26	2 28	9	13 3	2 32	9 45	13 15	12 18	12 43	26 1
27	3 26	9	24 52	1 32	9 53	13 28	12 53	13 52	28 1
28	4 24	11	6 n 39	0 27	10 0	13 41	13 09	15 2	0 n 2
C	5 22	14	18 27	0 s 38	10 8	13 54	14 4	16 11	2
30	6 20	19	0 17	1 42	10 15	14 7	14 39	17 21	4
31	7 18	26	12 12	2 42	10 23	14 20	15 14	18 30	6
M	l's sets	δ's rises	♀ sets	♂ rises	h's declin.	l's declin.	δ's declin.	♀'s declin.	♂'s declin.
1	8 a 49	11 a 10	9 a 0	3 m 3	10 n 38	9 n 31	18 n 21	7 n 39	18 n 4
7	8 27	10 58	8 17	2 51	10 22	9 3	19 16	4 40	19 4
13	8 6	10 46	8 34	3 0	10 6	8 35	20 6	1 36	19 4
19	7 46	10 34	8 21	3 28	9 49	8 6	20 50	1 s 30	18
25	7 28	10 23	8 8	4 12	9 32	7 17	21 28	4 35	15

## The LUNATIONS.

First quarter the 5th day, at 41 minutes past 6 morning.  
 Full Moon the 11th day, at 46 minutes past 10 n. h.  
 Last quarter the 18th day, at 36 minutes past 7 afternoon.  
 New Moon the 26th day, at 56 minutes past 11 night.

Sundays & other remark. days	☉ rises	☉ sets	☉'s declin.	☿'s declin.	☿ rises & sets	☿ South	Clock aft. ☉	
1 Gates	5 15	6 45	8 n 29	12 n 45	7 42	2 50	0 2	
2 Lon. burnt 1666	5 17	6 43	8 7	17 47	7 55	3 34	0 20	
3	5 19	6 41	7 45	22 11	8 15	4 22	0 39	
4	5 21	6 39	7 23	25 39	8 44	5 15	0 58	
5 12 Sun. a. Trin.	5 23	6 37	7 1	27 5	9 25	6 12	1 18	
6	5 24	6 36	6 38	28 32	10 26	7 13	1 37	
7 Enurachus	5 25	6 34	6 10	27 26	11 45	8 14	1 57	
8 Nativity V. M.	5 28	6 32	5 53	24 31	morn	9 15	2 18	
9	5 30	6 30	5 31	19 56	1 18	10 13	2 38	
0	5 32	6 28	5 8	14 1	2 53	11 9	2 59	
1	5 34	6 26	4 45	7 13	☿ rises	morn	3 19	
2 13 Sun. af. Tri.	5 36	6 24	4 22	0 1	6 32	0 1	3 40	
3	5 38	6 22	3 52	7 n 7	6 46	0 53	4 1	
4 Holy Cross	5 40	6 20	3 36	13 43	7 2	1 45	4 22	
5 Ember Week	5 42	6 18	3 13	19 24	7 22	2 37	4 43	
6	5 44	6 16	2 50	23 52	7 45	3 32	5 4	
7 Lambert	5 46	6 14	2 27	26 54	8 22	4 27	5 25	
8	5 48	6 12	2 4	28 22	9 10	5 24	5 46	
9 14 Sun. af. Tri.	5 50	6 10	1 40	28 19	10 10	6 20	6 7	
0	5 52	6 8	1 17	26 5	11 20	7 13	6 28	
1 St. Matthew	5 54	6 6	0 54	24 8	morn	8 4	6 49	
2 K. Geo. III. cr.	5 56	6 4	0 30	20 27	0 34	8 52	7 10	
3	5 58	6 2	0 7	15 58	1 48	9 36	7 31	
4	6 0	6 0	0 16	10 55	3 1	10 18	7 51	
5	6 2	5 58	0 40	5 23	4 12	10 58	8 12	
6 15 Sun. af. Tri.	Cypri.	5 57	1 3	0 s 11	☿ sets	11 37	8 32	
7 [O. Holy Rood	6 5	5 55	1 27	5 53	5 47	0 17	8 52	
8 [Witem. b.	6 7	5 53	1 5	11 25	6 0	0 59	9 12	
9 St. Michael's Da.	6 9	5 51	2 14	16 35	6 13	1 42	9 31	
0 St. Jerome	6 11	5 49	2 37	21 9	6 31	2 29	9 51	
☿	Day decreas.	Length of day	Helioc. long. ♀	Helioc. long. ♀	Helioc. long. ♂	Helioc. long. ☉	Helioc. long. ♀	☿ rises
1	3 4 13 30	1 12 45	15 12 43	1 8 55	8 17	20 11	11 20	5 m 24
7	3 26 13 8	10 58	16 10	5 24	14 6	5 11	2 23	5 5
3	3 50 12 44	11 10	16 37	8 50	19 56	15 10	23 40	4 47
9	4 14 12 20	11 23	17 5	12 15	25 47	14 39	12 19	4 29
5	4 38 11 56	11 35	17 32	15 37	19 40	4 7	29 29	4 12

M	Day lig.	Day lig.	Durat.	Pl. (s	h's	u's	δ's	♀'s	♂'s
D	begins	ends.	twilig.	node	latitude	latitude	latitude	latitude	latitude
1	3 56	8 55	2 31	11 41	1 n 42	1 n 1	0 s 38	0 s 28	1 n 43
7	3 22	8 37	2 41	11 22	1 42	1 1	0 31	0 52	1 23
13	3 37	8 23	2 0	11 3	1 43	1 2	0 24	1 18	0 49
19	3 51	8 8	1 58	10 44	1 43	1 2	0 16	1 44	0 9
25	4 4	7 54	1 56	10 25	1 44	1 2	0 7	2 9	0 35
M	☉'s	☿'s	♈'s	♉'s	♊'s	♋'s	♌'s	♍'s	♎'s
D	longitude	long.	latitude	long.	long.	long.	long.	long.	long.
1	12 8 10 34	24 15	3 s 36	10 23 1	14 17 33	15 14 4	19 23 39	7 12 58	
2	9 14 43	61 130	4 2	10 38	14 40	16 23	20 46	9 54	
3	10 12 54	18 58	4 54	10 41	14 59	16 57	21 57	11 48	
4	11 11 6	1 45	5 13	10 53	15 12	17 31	23 6	13 40	
5	12 9 20	12 53	5 18	11 1	15 25	18 52	24 15	15 32	
6	13 7 35	28 25	5 5	11 8	15 36	18 39	25 24	17 23	
7	14 5 51	1 15 21	4 34	11 16	15 51	19 12	26 33	19 13	
8	15 4 9	26 43	3 45	11 24	16 4	19 45	27 42	21 2	
9	16 2 29	11 27	2 40	11 31	16 17	20 17	28 50	22 49	
10	17 0 50	26 27	1 24	11 39	16 30	20 50	29 58	24 35	
11	17 59 13	11 37	0 0	11 46	16 43	21 22	1 6	26 20	
12	18 57 38	20 47	1 n 23	11 54	16 50	21 55	2 14	28 4	
13	19 56 4	11 47	2 40	12 1	17 6	22 27	3 22	29 47	
14	20 54 33	25 30	3 44	12 9	17 22	22 58	4 30	1 29	
15	21 53 3	10 49	4 35	12 16	17 35	23 29	5 37	3 10	
16	22 51 36	24 41	5 4	12 24	17 48	24 0	6 45	4 50	
17	23 50 11	8 11 6	5 17	12 31	18 1	24 31	7 52	6 29	
18	24 48 48	21 6	5 13	12 39	18 14	25 2	9 0	8 7	
19	25 47 28	3 42	4 54	12 46	18 26	25 33	10 7	9 44	
20	26 46 10	16 0	4 22	12 53	18 39	26 3	11 14	11 20	
21	27 44 54	28 4	3 39	13 1	18 52	26 33	12 21	12 55	
22	28 43 41	9 58	2 47	13 8	19 5	27 2	13 27	14 28	
23	29 42 30	21 47	1 48	13 16	19 18	27 31	14 34	16 1	
24	30 41 21	3 43	0 45	13 23	19 31	28 0	15 41	17 33	
25	1 40 14	15 21	0 s 20	13 3	19 44	28 29	16 47	19 4	
1	2 39 10	27 13	1 25	13 38	19 57	28 57	17 53	20 34	
2	3 38 7	9 10	2 26	13 45	20 9	29 24	18 59	22 3	
3	4 37 7	21 16	3 21	13 52	20 22	29 52	20 42	23 32	
4	5 36 9	3 31	4 8	14 0	20 35	30 19	21 10	25 0	
5	6 35 12	15 58	4 44	14 7	20 47	0 47	22 16	26 26	
M	♊'s	♋'s	♌'s	♍'s	♎'s	♏'s	♐'s	♑'s	♒'s
D	rises	rises	sets	sets	declin.	declin.	declin.	declin.	declin.
1	5 m 45	10 a 11	7 a 54	6 a 59	9 n 13	7 n 2	22 n 5	8 s 8	10 n 11
7	5 32	10 1	7 43	6 53	8 56	6 32	22 31	11 4	5 31
13	5 18	9 51	7 31	6 46	8 39	6 2	22 51	13 52	0 50
19	5 4	9 41	7 20	6 36	8 22	5 32	23 8	16 21	3 4
25	4 49	9 30	7 11	6 26	8 6	5 23	23 21	18 56	8



## The LUNATIONS.

First quarter the 4th day, at 36 minutes past 4 afternoon.

Full Moon the 11th day, at 58 minutes past 7 morning.

Last quarter the 18th day, at 56 minutes past 11 morning.

New Moon the 26th day, at 34 minutes past 4 afternoon.

M	Sundays & other	☉	☉	☉'s	☉'s	☉ rises	☉	Clock
D	remark. days	rises	sets	declin.	declin.	& sets	South	aft. ☉
1	Remigius	6 13	5 47	3 0	24 51	6 a 56	3 a 20	10 10'
2		6 15	5 45	3 24	27 22	7 32	4 15	10 29
C	16 Sun. af. Tri.	6 17	5 43	3 47	28 27	8 26	5 13	10 48
4		6 19	5 41	4 10	27 53	9 37	6 13	11 6
5		6 21	5 39	4 34	25 37	11 1	7 12	11 24
6	Faith	6 23	5 37	4 57	21 44	morn	8 9	11 42
7		6 25	5 35	5 20	16 29	0 32	9 3	11 59
8		6 27	5 33	5 43	10 12	2 4	9 56	12 16
9	Denys	6 29	5 31	6 6	3 16	3 39	10 47	12 32
C	17 Sun. a. Tri.	6 31	5 29	6 29	3 n 52	5 2	11 38	12 49
11	Olav. M. c. [Ox &	C. T. b.	5 27	6 51	10 45	☉ rises	morn	13 4
12		6 35	5 25	7 14	16 56	5 a 32	0 30	13 19
13	Tris. K. Edw. C.	6 37	5 23	7 37	22 3	5 55	1 25	13 34
14		6 39	5 21	7 59	25 46	6 26	2 21	13 48
15		6 41	5 19	8 22	27 53	7 9	3 19	14 2
16	[Etheldred	6 43	5 17	8 44	28 23	8 7	4 17	14 15
C	18 Sun. af. Tri.	6 44	5 16	9 6	27 19	9 14	5 13	14 27
18	St. Luke	6 46	5 14	9 28	24 57	10 28	6 6	14 39
19		6 48	5 12	9 50	21 30	11 41	6 55	14 50
20		6 50	5 10	10 11	17 13	morn	7 40	15 1
21		6 52	5 8	10 33	12 20	0 54	8 23	15 11
22		6 54	5 6	10 55	7 0	2 6	9 3	15 20
23		6 56	5 4	11 16	1 25	3 16	9 42	15 28
C	19 Sun. af. Tri.	6 58	5 2	11 37	4 16	4 27	10 22	15 36
25	K. Geo. 3. acc.	Crispin	5 0	12 58	9 53	5 39	11 3	15 43
26	K. Geo. 3. proc.	7 2	4 59	12 19	15 11	☉ sets	11 46	15 50
27		7 3	4 58	12 39	19 59	4 a 43	0 a 32	15 56
28	St. Sim. & Jude	7 5	4 57	12 50	23 56	5 7	1 22	16 1
29		7 7	4 55	13 20	26 45	5 40	2 16	16 5
30		7 9	4 51	13 39	28 11	6 28	3 14	16 8
C	20 Sun. af. Tri.	7 11	4 49	13 59	27 59	7 33	4 12	16 11
M	Day	Length	Helioc.	Helioc.	Helioc.	Helioc.	Helioc.	H
D	decreaf.	of day	long. ♀	long. ♀	long. ♂	long. ☉	long. ♀	rises
1	5 0	11 34	11 48	18 0	18 58	7 34	13 36	16 10 3 m 54
7	5 24	11 10	12 0	18 27	22 16	13 30	23 6	2 40 3 36
13	5 48	10 46	12 13	18 55	25 32	19 26	2 35	20 13 3 17
19	6 10	10 24	12 26	19 22	28 47	25 23	12 6	9 31 2 59
25	6 36	9 58	12 38	19 49	1 59	1 22	21 37	1 40 2 40

M D	Daylig. begins	Daylig. ends	Durat. twilig.	Pl. (C's node	h's latitude	u's latitude	δ's latitude	♀'s latitude	♂'s latitude
1	4 18	7 42	1 56	10 36	1 n 45	1 n 3	0 n 2	2 s 34	1 s 10
7	4 31	7 29	1 55	9 47	1 46	1 3	0 12	2 57	2 6
13	4 43	7 17	1 54	9 28	1 46	1 4	0 23	3 1	2 3
19	4 55	7 5	1 54	9 9	1 47	1 5	0 35	3 36	2 5
25	5 4	6 56	1 55	8 50	1 48	1 5	0 4	3 50	3
M D	☉'s longitude	☾'s long.	☾'s latitude	h's long.	u's long.	δ's long.	♀'s long.	♂'s long.	
1	7 34 17	28 m 37	5 s 6	14 m 14	21 m 0	1 14	23 m 2	27 5	
2	8 33 24	11 30	5 14	14 21	21 13	1 40	24 20	29 1	
C	9 32 33	24 39	5 5	14 28	21 25	2 5	25 31	om 4	
4	10 31 43	8 56	4 40	14 35	21 38	2 30	26 25	7	
5	11 30 55	21 53	3 59	14 42	21 51	2 55	27 40	3 2	
6	12 30 9	5 59	3 2	14 49	22 3	3 20	28 45	4 4	
7	13 29 24	20 23	1 52	14 56	22 16	3 45	29 49	6	
8	14 28 41	5 34	0 34	15 3	22 28	4 9	30 53	7 2	
9	15 28 1	19 56	0 n 47	15 10	22 41	4 32	1 56	8 3	
C	16 27 22	4 53	2 5	15 17	22 53	4 55	2 5	9 5	
11	17 26 45	19 47	3 14	15 24	23 6	5 17	4 2	11 6	
12	18 26 10	4 28	4 10	15 31	23 18	5 39	5 5	12 1	
13	19 25 37	18 51	4 48	15 37	23 31	6 1	6 8	13 2	
14	20 25 6	2 49	5 8	15 44	23 43	6 22	7 10	14 3	
15	21 24 38	16 21	5 9	15 51	23 56	6 43	8 11	15 4	
16	22 24 12	29 26	4 55	15 57	24 8	7 3	9 13	16 4	
C	23 23 48	12 6	4 26	16 4	24 20	7 22	10 14	17 5	
18	24 23 27	24 25	3 45	16 11	24 32	7 42	11 15	18 4	
19	25 23 8	6 29	2 55	16 17	24 44	8 1	12 16	19 4	
20	26 22 51	18 22	1 59	16 24	24 56	8 19	13 16	20 3	
21	27 22 37	om 9	0 57	16 30	25 8	8 36	14 15	21 2	
22	28 22 25	11 56	0 s 6	16 36	25 20	8 53	15 15	22 1	
23	29 22 15	23 46	1 10	16 43	25 32	9 9	16 14	22 5	
C	m 0 22 8	5 44	2 10	16 49	25 44	9 26	17 13	23 3	
25	1 22 2	17 52	3 6	16 55	25 55	9 42	18 12	24	
26	2 21 59	cm 11	3 54	17 1	26 7	9 57	19 10	24 2	
27	3 21 58	12 44	4 31	17 7	26 18	10 11	20 8	24 4	
28	4 21 58	25 29	4 56	17 13	26 30	10 25	21 5	24 5	
29	5 22 1	8 27	5 5	17 18	26 41	10 38	22 2	25 R	
30	6 22 5	21 37	4 59	17 24	26 53	10 50	22 58	24 5	
C	7 22 10	4 59	4 37	17 30	27 4	11 2	23 53	24 4	
M D	☾ rises	☽ rises	♀ sets	♂ sets	h's declin.	u's declin.	δ's declin.	♀'s declin.	♂'s declin.
1	4 m 35	9 a 18	7 a 1	6 a 16	7 n 49	4 32	23 30	21 s 7	11 s 5
7	4 21	9 7	6 53	6 6	7 34	4 22	23 37	23 1	15 2
13	4 6	8 55	6 46	5 55	7 19	3 33	23 43	24 36	18 2
19	3 50	8 42	6 40	5 43	7 4	3 5	23 49	25 52	20 3
25	3 33	8 24	6 36	5 30	6 50	2 28	23 55	26 4	21 4

## The LUNATIONS.

First quarter the 2d day, at 11 minutes past 1 morning.

**Full Moon the** 9th day, at 47 minutes past 6 evening.

Left quarter the 17th day, at 48 minutes past 7 morning.

**New Moon the 25th day, at 55 minutes past 7 morning.**

Sundays & other remark. days	☉ rises	☉ sets	☉'s declin.	☿'s declin.	☿ rises & sets	☿ South	Clock aft. ☉	
All Souls	7 13	4 47	14 19	20 7	8 a 54	5 a 12	16' 13"	
Du. of Kent be.	All Souls	4 46	14 38	22 42	10 19	6 7	16 14	
Fra. Sophia born	7 10	4 44	14 57	17 56	11 48	7 5	16 14	
K. William lan.	7 18	4 42	15 16	12 8	morn	7 51	16 14	
Powder Plot	7 20	4 40	15 34	5 37	1 16	8 40	16 13	
M. T. of Lon.	7 21	4 39	15 53	1 13	2 43	9 29	16 11	
21 Sun. af. Tris.	7 23	4 37	16 11	8 2	4 10	10 19	16 8	
Prs. Aug. So. b.	7 25	4 35	16 28	14 25	5 37	11 11	16 4	
Lord Mayor's d.	7 26	4 34	16 46	19 57	☿ rises morn	16 0		
	7 28	4 32	17 3	24 16	4 a 24	0 6	15 55	
St. Martin	7 30	4 30	17 20	27 4	5 0	1 4	15 48	
Sam. T. div. m.	7 32	4 28	17 36	28 12	5 54	2 2	15 41	
Brutus	7 33	4 27	17 53	27 41	6 59	3 1	15 33	
22 Sun. af. Tris.	7 35	4 25	18 9	25 43	8 11	3 56	15 25	
Machutus	7 36	4 24	18 24	22 33	9 25	4 47	15 15	
	7 38	4 22	18 39	18 29	10 40	5 34	15 5	
Hugh	7 39	4 21	18 54	13 44	11 51	6 18	14 53	
	7 41	4 19	19 1	8 32	morn	6 59	14 41	
	7 42	4 18	19 23	3 3	1 0	7 38	14 28	
Edmund	7 44	4 16	19 37	2 35	2 11	8 18	14 14	
23 Sun. af. Tris.	7 45	4 15	19 51	8 11	3 21	8 57	13 59	
Cecilia.	7 46	4 14	20 4	13 35	4 33	9 38	13 44	
Clem: Old Mart.	7 48	4 12	20 17	18 33	5 49	10 23	13 27	
Duke of Gl. b.	7 49	4 11	20 30	22 42	7 8	11 12	13 10	
	Cather.	4 10	20 42	26 0	☿ sets	0 a 5	12 52	
	7 52	4 8	20 53	27 49	4 a 17	1 2	12 34	
Advent morning	7 53	4 7	21 5	28 1	5 15	2 1	12 14	
	7 54	4 6	21 16	26 30	6 36	3 1	11 54	
[Mic. Term e.	7 55	4 5	21 26	23 21	8 2	3 58	11 33	
St. Andrew	7 56	4 4	21 36	18 49	9 31	4 52	11 12	
Day decreaf.	Length of day	Helioc. long. ♀	Helioc. long. ♀	Helioc. long. ♂	Helioc. long. ☉	Helioc. long. ♀	Helioc. long. ♂	☿ rises
7 0	9 34	12 53	20 21	5 11	8 22	2 45	2 46	2m 17
7 20	9 14	13 5	20 40	8 49	14 24	12 18	5 5	1 55
7 40	8 54	13 18	21 16	11 55	20 26	21 52	11 5	1 33
7 58	8 36	13 30	21 43	15 0	26 29	1 8	19 55	1 11
8 14	8 20	13 43	22 11	18 2	2 11	3	12 36	0 49

M	Daylig. D begins	Daylig. ends	Durat. twilig.	Pl. C's node	h's latitude	u's latitude	d's latitude	q's latitude	g's latitude
1	5 17	6 43	1 56	8 27	1 n 50	1 n 6	1 n 5	4 s 1	2 s 16
7	5 26	6 34	1 58	8 8	1 51	1 7	1 20	4 3	0 38
13	5 33	6 28	2 0	7 45	1 52	1 8	1 36	3 58	1 n 19
19	5 41	6 19	2 2	7 30	1 54	1 9	1 53	3 44	2 22
25	5 47	6 13	2 4	7 11	1 55	1 10	2 11	3 19	2 25
M	O's longitude		C's long.	C's latitude	h's long.	u's long.	d's long.	q's long.	g's long.
D	m 8	22 17	18 1/2 32	3 s 55	17 1/2 35	27 1/2 15	11 1/2 13	24 1/2 47	24 1/2 17
2	9	22 26	17 1/2 17	3 16	17 41	27 26	11 23	25 41	23 49
3	10	22 36	16 14	2 2	17 47	27 37	11 32	26 35	23 7
4	11	22 48	0 2	0 50	17 52	27 48	11 41	27 28	22 10
5	12	23 1	14 42	0 n 27	17 58	27 59	11 49	28 20	21 5
6	13	23 16	29 9	1 42	18 4	28 10	11 57	29 12	19 57
C	14	23 32	13 1/2 42	2 51	18 9	28 21	12 4	30 3	18 46
8	15	23 50	28 14	3 48	18 14	28 32	12 10	0 53	17 31
9	16	24 9	12 8 39	4 31	18 19	28 42	12 15	1 4	16 12
10	17	24 30	26 50	4 56	18 24	28 53	12 19	2 32	14 49
11	18	24 53	10 11 43	5 2	18 29	29 3	12 23	3 20	13 31
12	19	25 17	24 13	4 52	18 34	29 14	12 26	4 7	12 22
13	20	25 44	7 50 19	4 26	18 39	29 24	12 28	4 53	11 22
C	21	26 12	20 1	3 47	18 44	29 34	12 29	5 38	10 31
15	22	26 42	2 2 23	2 59	18 48	29 44	12 R 30	6 22	9 50
16	23	27 15	14 28	2 4	18 53	29 54	12 29	7 5	9 20
17	24	27 49	26 22	1 4	18 57	30 4	12 28	7 47	9 2
18	25	28 24	8 1/2 20	0 1	19 2	30 13	12 26	8 29	8 D 56
19	26	29 2	19 57	1 s 1	19 6	30 23	12 23	9 10	9 1
20	27	29 42	1 50	2 1	19 10	30 32	12 19	9 50	9 11
C	28	30 23	13 53	2 56	19 14	30 42	12 14	10 28	9 35
22	29	31 6	26 9	3 44	19 18	30 51	12 9	11 4	10 13
23	f 0	31 51	8 1/2 41	4 23	19 22	31 1	12 3	11 39	10 58
24	1	32 37	21 31	4 18	19 26	31 10	11 56	12 12	11 46
25	2	33 24	4 1/2 38	5 0	19 30	31 19	11 48	12 44	12 37
26	3	34 13	18 0	4 55	19 34	31 28	11 40	13 15	13 35
27	4	35 3	1 1/2 35	4 34	19 37	31 37	11 30	13 44	14 39
C	5	35 54	15 21	3 56	19 41	31 46	11 19	14 12	15 48
29	6	36 46	29 13	3 5	19 44	31 55	11 7	14 38	17 0
30	7	37 38	13 1/2 10	2 1	19 48	32 4	10 54	15 2	18 14
M	u's rises	d's rises	q's sets	g's sets	h's declin.	u's declin.	d's declin.	q's declin.	g's declin.
1	3 m 14	8 a 2	6 a 35	5 a 9	6 n 35	2 n 7	24 u 4	27 s 22	21 s 4
7	2 57	7 36	6 33	4 44	6 24	1 41	24 15	27 31	18 2
13	2 39	7 10	6 31	rises	6 13	1 17	24 29	27 20	14 0
19	2 20	6 44	6 29	5 m 54	6 4	0 54	24 46	26 52	12 16
25	2 0	6 18	6 26	5 48	5 56	0 33	25 7	26 10	13 20

## THE LUNATIONS.

First quarter the 2d day, at 4 minutes past 9 morning.

Full Moon the 9th day, at 40 minutes past 7 morning.

Last quarter the 17th day, at 33 minutes past 5 morning.

New Moon the 24th day, at 40 minutes past 9 night.

First quarter the 31st day, at 3 minutes past 5 evening.

M	Sundays & other D remark, days	☉ rises	☉ sets	☉'s declin.	☽'s declin.	☽ rises & sets	☽ South	Clock aft. ☉	
1		7 57	4 3	21 46	13 15	10 2 57	5 42	10' 50"	
2		7 58	4 2	21 55	6 59	morn	6 31	10 27	
3		7 59	4 1	22 4	0 22	0 21	7 18	10 3	
4		8 0	4 0	22 13	6 16	1 43	8 5	9 39	
5	Sun. in Adve.	8 1	3 59	22 21	12 35	3 8	8 55	9 15	
6	Nicholas	8 2	3 58	22 28	18 14	4 36	9 47	8 50	
7		8 3	3 57	22 36	22 52	6 3	10 42	8 24	
8	Concept. V.M.	8 3	3 57	22 42	26 9	7 26	11 39	7 58	
9		8 4	3 56	22 48	27 53	☽ rises morn		7 32	
10		8 4	3 56	22 54	27 56	4 30	0 37	7 5	
11		8 5	3 55	23 0	26 26	5 40	1 34	6 37	
12	3 Su. in Advent	8 6	3 54	23 5	23 37	6 56	2 27	6 9	
13	Lucy	8 6	3 54	23 9	19 46	8 10	3 16	5 41	
14		8 6	3 54	23 13	15 10	9 25	4 1	5 13	
15	Ember Week	8 7	3 53	23 16	10 4	10 35	4 44	4 44	
16	Cam. Ter. O. Sa.	8 7	3 53	23 20	4 39	11 44	5 23	4 15	
17	Oxf. Term ends	8 7	3 53	23 22	0 55	morn	6 2	3 45	
18		8 8	3 52	23 24	6 30	0 54	6 41	3 16	
19	4 Su. in Advent	8 8	3 52	23 26	11 55	2 4	7 21	2 46	
20		8 8	3 52	23 27	16 59	3 17	8 3	2 16	
21	St. Thomas	Shor. d.	3 52	23 28	21 28	4 34	8 50	1 46	
22		8 8	3 52	23 28	25 2	5 53	9 41	1 16	
23		8 8	3 52	23 28	27 22	7 12	10 37	0 46	
24		8 8	3 52	23 27	23 6	☽ sets	11 36	0 15	
25	Christmas Day	8 7	3 53	23 26	27 5	3 56	0 37	ob. 15	
26	1 Sun. af. Chri.	8 7	3 53	23 24	24 18	5 30	1 36	0 45	
27	St. John [St. Ste.]	8 7	3 53	23 22	19 58	7 1	2 33	1 15	
28	Innocents	8 6	3 54	23 19	14 29	8 30	3 26	1 45	
29		8 6	3 54	23 16	8 12	9 57	4 16	2 14	
30		8 6	3 54	23 13	1 34	11 22	5 3	2 44	
31	Silvester	8 5	3 55	23 9	5 5	morn	5 50	3 13	
M	Day decreas.	Length of day	Helioc. long. ♀	Helioc. long. ♂	Helioc. long. ♂	Helioc. long. ♀	Helioc. long. ♀	Helioc. long. ♀	h rises
1	8 28	8 6	13 11 55	22 11 38	21 11 3	8 11 39	20 8 40	20 11 27	cm 26
7	8 40	7 54	14 8	23 6	24 7	14 44	0 11 18	13 32	0 1
13	8 46	7 48	14 20	23 33	27 0	20 50	9 58	3 17 20	11 35
19	8 50	7 44	14 33	24 0	29 51	26 57	19 38	4 1 8	11 8
25	oinc. 21	7 46	14 45	24 28	2 50	3 42	29 20	7 2 53	10 40

M D	Daylig. begins	Daylig. ends	Durat. twilig.	Pl. (C's node	h's latitude	u's latitude	♂'s latitude	♀'s latitude	♂'s latitude
1	5 54	6 6	2 5	6 52	1 n 57	1 n 12	2 n 29	2 s 42	1 n 56
7	5 57	6 3	2 6	6 33	1 58	1 13	2 46	1 50	1 15
13	5 59	6 1	2 7	6 14	2 0	1 14	3 1	0 41	0 33
19	6 1	5 59	2 7	5 55	2 1	1 16	3 15	0 n 43	0 s 12
25	6 1	5 59	2 7	5 36	2 3	1 17	3 25	2 16	0 52
M D	☉'s longitude		☌'s long.	☌'s latitude	h's long.	u's long.	♂'s long.	♀'s long.	♂'s long.
1	8 38	32	27 11	0 s 51	19 51	2 13	10 20 40	15 23	19 13 31
2	9 39	27	11 15	0 n 24	19 54	2 20	10 26	15 44	20 49
3	10 40	22	25 21	1 37	19 57	2 28	10 11	16 2	22 10
4	11 41	18	9 28	2 44	20 0	2 36	9 56	16 18	23 34
C	12 42	14	23 36	3 41	20 3	2 44	9 40	16 38	24 58
6	13 43	12	7 40	4 24	20 6	2 52	9 23	16 44	26 23
7	14 44	10	21 39	4 51	20 9	3 0	9 5	16 54	27 45
8	15 45	8	5 12	5 120	20 12	3 7	8 47	17 0	29 16
9	16 46	8	19 1	4 53	20 14	3 14	8 28	17 4	0 44
10	17 47	9	2 17	4 29	20 17	3 21	8 9	17 R 4	2 12
11	18 48	10	15 15	3 52	20 19	3 28	7 49	17 4	3 41
C	19 49	12	27 53	3 520	21	3 35	7 28	17 4	5 10
13	20 50	15	10 13	2 9	20 23	3 42	7 6	17 4	6 40
14	21 51	19	22 18	1 8	20 25	3 48	6 43	17 2	8 10
15	22 52	25	4 12	0 6	20 27	3 55	6 21	16 56	9 41
16	23 53	30	16 1	0 s 57	20 28	4 1	5 58	16 42	11 12
17	24 54	37	27 49	1 57	20 30	4 8	5 36	16 27	12 42
18	25 55	45	9 42	2 53	20 32	4 14	5 13	16 7	14 14
C	26 56	54	21 46	3 41	20 33	4 20	4 50	15 44	15 46
20	27 58	3	4 6	4 21	20 34	4 25	4 26	15 20	17 18
21	28 59	13	16 45	4 49	20 35	4 31	4 3	14 55	18 50
22	29 0	24	29 45	5 2	20 36	4 36	3 39	14 29	20 2
23	1 1	36	13 8	5 0	20 37	4 42	3 15	14 2	21 50
24	2 2	47	26 51	4 41	20 38	4 47	2 51	13 34	23 20
25	3 3	59	10 51	4 5	20 39	4 52	2 27	13 4	25 2
C	4 5	12	25 4	3 12	20 39	4 56	2 4	12 32	26 31
27	5 6	24	9 24	2 8	20 39	5 1	1 41	11 58	28 10
28	6 7	36	23 46	0 55	20 40	5 5	1 18	11 22	29 4
29	7 8	48	8 5	0 n 22	20 40	5 10	0 55	10 46	1 10
30	8 10	0	22 19	1 37	20 40	5 14	0 32	10 10	2 5
31	9 11	12	6 27	2 45	20 41	5 18	0 5	9 33	4 2
V D	☌'s rises	♂'s rises	♀'s sets	♂'s rises	h's declin.	u's declin.	♂'s declin.	♀'s declin.	♂'s declin.
1	1 m 38	5 a 48	6 a 18	6 m 2	5 n 49	0 n 13	25 n 31	25 s 15	15 s 4
7	1 17	5 17	6 6	6 25	5 43	0 s 52	25 55	24 1	18 2
13	0 55	4 42	5 49	6 50	5 37	0 20	26 18	23 3	20 5
19	0 32	4 3	5 24	7 15	5 30	0 34	26 37	21 50	22 5
25	0 7	3 17	4 54	7 39	5 36	0 45	26 52	20 34	24 1

# 32 The Georgian or New Planet. White.

Dates		Heliocentric		Geocentric		Declin.	South.	
Months	Days	longitude	latitude	longitude	latitude		h	m
January	1	3 53	0 43	7 3	0 43	2 8	17	38
	11	4 6	0 43	7 R 6	0 44	2 9	16	55
	21	4 13	0 43	7 4	0 44	2 8	16	12
February	1	4 22	0 43	6 54	0 44	2 4	15	26
	11	4 30	0 43	6 41	0 45	1 58	14	45
	21	4 38	0 43	6 23	0 45	1 51	14	5
March	1	4 44	0 43	6 6	0 45	1 44	13	34
	11	4 52	0 43	5 42	0 45	1 34	12	56
	21	5 0	0 43	5 16	0 45	1 24	12	18
April	1	5 8	0 43	4 48	0 45	1 13	11	36
	11	5 16	0 43	4 22	0 45	1 3	10	58
	21	5 24	0 43	3 58	0 45	0 54	10	20
May	1	5 32	0 44	3 38	0 45	0 46	9	41
	11	5 39	0 43	3 20	0 44	0 39	9	2
	21	5 47	0 43	3 8	0 44	0 34	8	21
June	1	5 56	0 43	2 59	0 44	0 31	7	37
	11	6 4	0 43	2 D 57	0 43	0 31	6	55
	21	6 11	0 43	3 0	0 43	0 32	6	14
July	1	6 19	0 42	3 8	0 42	0 36	5	33
	11	6 27	0 42	3 22	0 42	0 42	4	53
	21	6 35	0 42	3 40	0 41	0 45	4	14
August	1	6 44	0 42	4 5	0 41	1 0	3	32
	11	6 51	0 42	4 32	0 41	1 11	2	55
	21	6 59	0 42	5 3	0 40	1 23	2	20
September	1	7 8	0 42	5 40	0 40	1 38	1	42
	11	7 16	0 42	6 16	0 40	1 53	1	8
	21	7 23	0 42	6 53	0 40	2 8	0	35
October	1	7 31	0 4	7 31	0 40	2 23	0	1
	11	7 39	0 42	8 9	0 40	2 38	23	23
	21	7 47	0 4	8 47	0 40	2 52	22	48
November	1	7 55	0 42	9 26	0 40	3 8	22	8
	11	8 3	0 42	9 5	0 40	3 21	21	30
	21	8 11	0 42	10 30	0 40	3 32	20	51
December	1	8 19	0 42	10 56	0 41	3 43	20	10
	11	8 27	0 42	10 19	0 41	3 51	19	28
	21	8 34	0 42	10 36	0 41	3 58	18	45
	31	8 42	0 42	10 4	0 42	4 2	18	1

Time of High-Water at LONDON in the morning and afternoon of every day in the year.

Mo. Days	JANUARY				FEBRUARY				MARCH				APRIL			
	morn.		aftern.		morn.		aftern.		morn.		aftern.		morn.		aftern.	
	h	m	h	m	h	m	h	m	h	m	h	m	h	m	h	m
1	11	6			0	33	1	7	11	44			0	59	1	25
2			0	21	1	41	2	13	0	7	0	50	1	50	2	15
3	0	55	1	30	2	38	3	1	1	20	1	48	2	36	2	57
4	2	3	2	36	3	19	3	35	2	13	2	37	3	14	3	31
5	3	0	3	22	3	51	4	6	2	56	3	15	3	47	4	3
6	3	41	3	59	4	25	4	43	3	31	3	47	4	23	4	44
7	4	18	4	38	5	1	5	20	4	3	4	19	5	6	5	27
8	4	57	5	15	5	41	6	4	4	38	4	59	5	54	6	21
9	5	35	5	57	6	29	6	56	5	19	5	41	6	49	7	17
10	6	21	6	41	7	25	7	56	6	7	6	34	7	47	8	18
11	7	10	7	35	8	29	9	4	7	4	7	35	8	49	9	20
12	8	2	8	34	9	39	10	14	8	8	8	41	9	49	10	18
13	9	6	9	38	10	47	11	20	9	15	9	50	10	45	11	11
14	10	12	10	46	11	51			10	21	10	52	11	37		
15	11	9	11	52	0	21	0	47	11	22	11	51	0	3	0	25
16			0	22	1	11	0	44			0	16	0	47	1	9
17	0	50	1	17	1	57	2	17	0	40	1	2	1	31	1	53
18	1	43	2	7	2	38	3	8	1	23	1	45	2	16	2	35
19	2	32	2	49	3	7	3	21	2	5	2	21	2	55	3	12
20	3	6	3	20	3	37	3	46	2	43	2	59	3	20	3	46
21	3	34	3	47	3	58	4	13	3	12	3	27	4	3	4	25
22	4	0	4	14	4	28	4	44	3	41	3	57	4	47	5	1
23	4	28	4	43	5	3	5	22	4	9	4	29	5	36	6	6
24	4	59	5	14	5	42	6	7	4	50	5	12	6	37	6	59
25	5	30	5	50	6	35	7	6	5	35	6	4	7	41	8	15
26	6	11	6	35	7	39	8	17	6	33	7	7	8	51	9	28
27	7	0	7	29	8	57	9	39	7	41	8	20	10	2	10	34
28	7	58	8	33	10	22	11	3	9	0	9	30	11	5	11	36
29	9	11	9	51					10	18	10	54		0	0	6
30	10	33	11	15					11	29			0	33	0	59
31	11	57							0	1	0	31				3

This Table may serve the following Places, by adding

	h	m
For Tinnmouth Haven, Hartle-pool, and Amsterdam	0	30
Brest — — — — —	1	0
Scilly — — — — —	1	45
Mount's Bay — — — — —	1	55
Bridlington Pier and Humber — — — — —	2	0



Time of High-Water at LONDON in the morning and afternoon of every day in the year.

M. Days	MAY				JUNE				JULY				AUGUST				Mo. Days
	morn.		aftern.		morn.		aftern.		morn.		aftern.		morn.		aftern.		
	h	m	h	m	h	m	h	m	h	m	h	m	h	m	h	m	
1	1	24	1	49	2	43	3	4	3	5	3	28	3	40	3	52	1
2	2	14	2	40	3	23	3	41	3	37	3	51	4	4	4	17	2
3	3	0	3	18	3	58	4	14	4	6	4	20	4	32	4	47	3
4	3	36	3	53	4	32	4	51	4	36	4	52	5	2	5	18	4
5	4	12	4	32	5	9	5	27	5	7	5	22	5	37	5	57	5
6	4	52	5	14	5	47	6	8	5	40	5	58	6	20	6	45	6
7	5	36	6	0	6	29	6	51	6	19	6	40	7	12	7	41	7
8	6	24	6	50	7	10	7	29	7	1	7	23	8	16	8	53	8
9	7	15	7	41	7	57	8	25	7	51	8	19	9	33	10	14	9
10	8	7	8	34	8	51	9	18	8	51	9	24	10	54	11	35	10
11	9	1	9	28	9	47	10	16	9	59	10	35	0	12			11
12	9	55	10	21	10	45	11	15	11	13	11	51	0	48	1	20	12
13	10	47	11	12	11	47					0	27	1	50	2	18	13
14	11	37			0	20	0	51	1	2	1	35	2	45	3	4	14
15	0	1	0	28	1	22	1	53	2	8	2	35	3	23	3	39	15
16	0	56	1	22	2	25	2	50	3	0	3	20	3	54	4	12	16
17	1	47	2	13	3	12	3	34	3	38	3	55	4	29	4	48	17
18	2	40	3	2	3	53	4	14	4	12	4	33	5	7	5	28	18
19	3	22	3	42	4	34	4	55	4	55	5	13	5	51	6	18	19
20	4	0	4	21	5	10	5	38	5	30	5	52	6	46	7	16	20
21	4	45	5	9	6	1	6	26	6	15	6	41	7	47	8	22	21
22	5	33	6	0	6	51	7	17	7	7	7	36	8	58	9	34	22
23	6	23	6	55	7	44	8	13	8	6	8	40	10	11	10	45	23
24	7	23	7	53	8	42	9	15	9	15	9	51	11	18	11	49	24
25	8	23	8	56	9	40	10	22	10	27	11	1			0	19	25
26	9	27	9	58	10	53	11	27	11	35			0	39	1	8	26
27	10	26	11	0			0	1	0	7	0	39	1	31	1	53	27
28	11	31			0	31	1	0	1	7	1	33	2	14	2	34	28
29			0	28	1	29	1	57	1	58	2	22	2	49	3	3	29
30	0	56	1	24	2	22	2	47	2	41	2	59	3	16	3	29	30
31	1	53	2	21					3	13	3	27	3	42	3	56	31

Adding

	h	m
For Fowey, Loo and Plymouth	—	—
Dartmouth, Harborough and Hull	—	—
Torbay and Tinnmouth	—	—
Exmouth, Topsham and Lyme	—	—
Bristol and Weymouth	—	—
Bridgewater and Texel	—	—
Portland and Hartlew	—	—
	3	10
	3	30
	3	40
	3	50
	4	20
	4	40
	5	50

Time of High-Water at LONDON in the morning and afternoon of every day in the year.

Mo. Days	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
	morn.		aftern.		morn.		aftern.		morn.		aftern.		morn.		aftern.	
	h	m	h	m	h	m	h	m	h	m	h	m	h	m	h	m
1	4	9	4	22	4	25	4	45	5	55	6	24	6	29	6	56
2	4	39	4	56	5	7	5	28	6	53	7	23	7	23	7	51
3	5	15	5	35	5	55	6	25	7	55	8	29	8	21	8	51
4	6	1	6	27	6	57	7	29	9	2	9	36	9	23	9	56
5	6	57	7	29	8	5	8	44	10	8	10	40	10	28	10	59
6	8	5	8	44	9	22	10	1	11	12	11	44	11	32		
7	9	24	10	7	10	35	11	9			0	13	0	6	0	36
8	10	47	11	26	11	42			0	41	1	8	1	5	1	35
9			0	1	0	15	0	44	1	35	2	3	2	4	2	30
10	0	34	1	4	1	11	1	37	2	31	2	57	2	54	3	14
11	1	33	2	0	2	3	2	27	3	13	3	32	3	32	3	49
12	2	26	2	47	2	50	3	10	3	50	4	10	4	5	4	24
13	3	6	3	24	3	27	3	45	4	31	4	51	4	43	5	0
14	3	40	3	56	4	2	4	23	5	13	5	35	5	17	5	36
15	4	12	4	32	4	44	5	7	5	58	6	22	5	55	6	15
16	4	55	5	17	5	30	5	57	6	47	7	11	6	35	6	56
17	5	39	6	6	6	25	6	53	7	35	8	1	7	17	7	40
18	6	36	7	6	7	21	7	51	8	28	8	53	8	4	8	29
19	7	38	8	13	8	22	8	52	9	18	9	45	8	55	9	22
20	8	51	9	21	9	21	9	50	10	12	10	37	9	52	10	22
21	9	55	10	26	10	18	10	44	11	2	11	28	10	53	11	25
22	10	56	11	25	11	9	11	35	11	54			11	58		
23	11	52			11	59			0	22	0	50	0	29	1	0
24	0	17	0	39	0	22	0	44	1	14	1	36	1	30	2	12
25	1	0	1	22	1	6	1	27	2	3	2	30	2	28	2	54
26	1	42	2	2	1	49	2	11	2	51	3	12	3	14	3	34
27	2	21	2	40	2	31	2	51	3	31	3	59	3	52	4	9
28	2	55	3	9	3	9	3	25	4	10	4	31	4	3	4	59
29	3	24	3	38	3	42	3	59	4	53	5	15	5	10	5	29
30	3	52	4	6	4	20	4	41	5	39	6	3	5	51	6	11
31					5	3	5	26					6	19	7	4

## Subtracting

h m

For Leigh, Maes, and Gouries Gut	—	—	—	—	0	5
Gravesend, Rochester, and Rammekins	—	—	—	—	1	20
Buoy of the Nore and Flushing	—	—	—	—	1	30
Portsmouth, Ostend, Shoe-Beacon, and Red-Sand	—	—	—	—	2	0
Harwich, Dover, Spithead, and Calais	—	—	—	—	3	0
Gunfleet, Hastings, Shoreham, Orfordness, and Dieppe	—	—	—	—	4	0
Yarmouth Pier and Needle	—	—	—	—	4	40
St. Helen's and Havre-de-Grace	—	—	—	—	5	10

## The Eclipses of Jupiter's

JANUARY	FEBRUARY	MARCH	APRIL
Immersion	Immersion	Emergence	Emergence
d h m s	d h m s	d h m s	d h m s
2 <sup>h</sup> 14 1 14	1 <sup>h</sup> 16 3 57	2 1 54 16	1 3 59 41
4 8 29 38	3 <sup>h</sup> 10 32 21	3 20 22 44	2 22 28 18
6 2 57 58	5 5 0 49	5 <sup>h</sup> 14 51 18	4 16 56 53
7 21 26 22	6 23 29 14	7 <sup>h</sup> 9 19 47	6 <sup>h</sup> 11 25 32
9 <sup>h</sup> 15 54 43	8 <sup>h</sup> 17 57 43	9 3 48 21	8 5 54 7
1 <sup>h</sup> 10 23 7	10 <sup>h</sup> 12 26 8	10 22 16 50	10 0 22 46
3 4 51 28	12 <sup>h</sup> 6 54 38	12 <sup>h</sup> 16 45 25	11 18 51 22
4 23 19 53	14 1 23 4	14 <sup>h</sup> 11 13 50	13 <sup>h</sup> 13 20 1
6 <sup>h</sup> 17 48 14	15 19 51 35	16 5 42 31	15 <sup>h</sup> 7 48 38
8 <sup>h</sup> 12 16 39	17 <sup>h</sup> 14 20 3	18 0 11 2	17 2 17 16
0 6 45 1	19 <sup>h</sup> 8 48 34	19 18 39 38	18 20 45 54
2 1 13 28	Emergence	21 <sup>h</sup> 13 8 10	20 15 14 33
3 19 41 50	21 5 31 47	23 <sup>h</sup> 7 36 46	22 <sup>h</sup> 9 43 11
5 <sup>h</sup> 14 10 16	23 0 0 18	25 2 5 19	24 4 11 50
7 <sup>h</sup> 8 38 39	24 18 28 45	26 20 33 56	25 22 40 28
9 3 7 6	26 <sup>h</sup> 12 57 16	28 <sup>h</sup> 15 2 30	27 17 9 7
0 21 35 30	28 <sup>h</sup> 7 25 44	30 <sup>h</sup> 9 31 7	29 <sup>h</sup> 11 37 47
MAY	JUNE	JULY	AUGUST
Emergence	Emergence	Emergence	Emergence
d h m s	d h m s	d h m s	d h m s
1 6 6 26	2 2 42 22	2 4 49 37	1 6 56 18
3 0 35 5	3 21 11 4	3 23 18 14	3 1 24 56
4 19 3 45	5 15 39 42	5 17 46 55	4 19 53 30
6 13 32 24	7 <sup>h</sup> 10 8 24	7 12 15 31	6 14 22 8
8 8 1 4	9 4 37 2	9 6 44 12	8 8 50 42
0 2 29 44	10 23 5 44	11 1 12 48	10 3 19 20
1 20 58 23	12 17 34 22	12 19 41 28	
3 15 27 3	14 12 3 3	14 14 10 5	
5 <sup>h</sup> 9 55 42	16 6 31 42	16 8 38 45	
7 4 24 22	18 1 0 23	18 3 7 21	
8 22 53 2	19 19 29 2	19 21 36 1	
0 17 21 43	21 13 57 42	21 16 4 37	
2 <sup>h</sup> 11 50 22	23 8 26 20	23 10 33 16	
4 6 19 4	25 2 55 1	25 5 1 51	
6 0 47 42	26 21 23 38	26 23 30 30	
7 19 16 24	28 15 52 19	28 17 59 4	
9 13 45 3	30 10 20 56	30 12 27 43	
1 8 13 44			

first Satellite for the Year 1802.

SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
	Immersion	Immersion	Immersion
	d h m s	d h m s	d h m s
The eclipses of Jupiter's Satellites are not visible this Month, Jupi- ter being too near the Sun.	9 5 16 1	1 5 25 54	1 7 28 55
	10 23 44 26	2 23 54 24	3 1 57 14
	12 18 12 56	4 18 22 45	4 20 25 42
	14 12 41 23	6 12 51 15	6* 14 54 0
	16 7 9 54	8 7 19 36	8 9 22 28
	18 1 38 18	10 1 48 6	10 3 50 45
	19 20 6 49	11 20 16 27	11 22 19 13
	21 14 35 14	13 14 44 56	13* 16 47 30
	23 9 3 44	15 9 13 16	15 11 15 57
	25 3 32 8	17 3 41 45	17 5 44 14
	26 22 0 39	18 22 10 5	19 0 12 41
	28* 16 29 2	20* 16 38 33	20* 18 40 59
	30 10 57 31	22 11 6 53	22* 13 9 25
		24 5 35 22	24 7 37 44
		26 0 3 41	26 2 6 11
		27* 18 32 9	27 20 34 27
		29 13 0 27	29* 15 2 53
			31 9 31 11

The Times of the Eclipses contained in this Table are adapted to the Meridian of the Royal Observatory at Greenwich, and afford an excellent Method to discover the Longitude, or Difference of Meridians, between that and any other Place; which I shall illustrate by an EXAMPLE;

Suppose on the 16th Day of October of this Year, the Time of the Immersion of Jupiter's first Satellite be observed (by a Telescope) in an unknown Meridian, to happen at 8 h. 58 min. 14 sec.; I find by the Table, that the Time of this Immersion will happen at the British Observatory, at 7 h. 9 min. 54 sec. the same day: The Difference of the Times is 1 hour 48 min. 20 sec. which being converted into Degrees and Minutes of the Equator, will make 27 deg. 5 min. the Longitude of the Place of Observation, to the East, because the Time is more than that at the British Observatory.

N. B Those marked with an Asterisk are visible at Greenwich.

Note, also, that the times of the above eclipses are set down according to mean or clock time.

## Speculum Phænomenorum

JANUARY		FEBRUARY		MARCH	
2	♂ (♂ 7h.	1	♂ (♀ 12h.	1	♂ (♂ 1h.
2	♂ (♀ 13h.	2	♂ (♀ 14h.	2	♀ stationary
2	♂ (♂ 20h.	2	♂ in perige	3	♂ in perige
5	♂ in perige	15	♂ in apoge	3	☉ eclipsed invis.
9	♀ in aphelion	16	♀ in aphelion	3	♂ (♀ 11h.
11	♂ in ☉	17	♂ (♂ 11h.	4	♂ (♂ 15h.
13	♂ stationary	17	♂ (♂ 17½h.	12	♂ (♂ 8½h.
20	☉ in ☉ 4h. 27m.	18	☉ in ☉ 19h. 14m.	15	♂ in apoge
20	♂ in apoge	18	♂ in ☉	16	♂ (♂ 10h.
21	♂ (♂ 11h.	19	☉ (♂ 15½h.	16	♂ (♂ 20h.
21	♂ (♂ 15h.	20	☉ (♂ 10h.	17	♂ (♂ 11½h.
24	♂ (♂ 4h.	22	☉ (♂ 20h.	18	♂ eclips. invis.
27	♂ (♂ 10½h.	22	♂ in perihelion	19	♂ (♂ 14h.
31	♂ (♂ 4 h.	24	♂ elong. max.	20	☉ in ☉ 19h. 35m.
				25	☉ (♂ 22½h.
				26	♂ stationary
				28	♂ in ☉
				29	♂ (♂ 22½h.
				30	♂ in perige
				31	♂ (♂ 6h.
APRIL		MAY		JUNE	
2	♂ (♀ 10½h.	2	♂ (♀ 12h.	1	♂ (♂ 8h.
7	♂ in aphelion	3	♂ stationary	1	♂ (♀ 17h.
9	♂ elong. max.	5	♀ in ☉	6	♂ (♂ 12h.
11	♂ in apoge	9	♂ in apoge	6	♂ (♂ 17½h.
12	♂ (♂ 14h.	10	♂ (♂ 1h.	6	♂ in apoge
13	♂ (♂ 10h.	10	♂ (♂ 7½h.	9	♂ (♂ 9h.
15	♂ (♂ 19h.	13	♂ (♂ 7h.	9	♂ stationary
20	☉ in ☉ 8h. 15m.	17	♂ in ☉	9	♀ in perihelion
22	♂ stationary	18	☉ (♂ 1h.	18	♂ in perige
27	♂ (♂ 19h.	18	♂ (♂ 18½h.	21	♂ elong. max.
27	♂ in perige	21	☉ in ☉ 8h. 47m.	21	☉ in ☉ 17h. 27m.
30	♂ (♂ 2h.	22	☉ (♂ 8h.	24	♂ (♂ 9h.
		22	♂ in perige	24	☉ (♂ 22h.
		22	♂ in perihelion	24	♂ in ☉
		26	♂ (♂ 14h.		
		28	♂ in perihelion		

ad Annum 1802.

JULY		AUGUST		SEPTEMBER	
1	♂ ☾ 12h.	1	♂ ☾ ♀ 8h.	1	♂ ☉ ♀ 8h.
1	☉ in aphelion	3	♂ ☾ ♀ 1½h.	3	♂ ☉ ♀ 15½h.
2	♂ ☾ ♀ 0h.	7	♂ ☾ along: max.	9	♂ ☉ ♀ 7½h.
4	♂ ☾ ♀ 5h.	12	♂ ☾ in ☿	11	☾ eclipsed visible
4	♂ ☾ ♀ 4h.	13	☾ in perige	11	☾ in perige
4	☾ in apoge	17	♂ ☾ in perihelion	18	♂ ☾ ♀ 8h.
4	☾ in aphelion	20	♂ ☾ ♀ 18h.	18	☐ ☉ ♀ 11½h.
5	♂ ☾ stationary	23	☉ in ♀ 10h. 39m.	20	♂ ☉ ♀ 22½h.
6	♂ ☾ ♀ 17½h.	24	♀ in ☿	20	♀ in ☿
16	☾ in perige	27	♂ ☾ ♀ 8h.	23	☉ in ☾ 7h. 8m.
18	♂ ☉ ♀ 20½h.	27	☉ eclipsed visible	24	♂ ☾ ♀ 20h.
23	♂ ☾ ♀ 2h.	27	☾ in apoge	24	☾ in apoge
23	☉ in ♀ 4h. 17m.	28	♂ ☾ ♀ 6½h.	25	♂ ☾ ♀ 21 9h.
27	♂ ☾ ♀ 22h.	28	♂ ☾ ♀ 14½h.	26	♂ ☾ ♀ 19h.
29	♂ ☾ stationary	30	♂ ☾ ♀ 9½h.	28	♂ ☾ ♀ 5h.
31	♂ ☾ ♀ 17½h.	31	♂ ☾ ♀ 14h.	28	♂ ☾ in ☿
31	♂ ☾ ♀ 20½h.			29	♀ in aphelion
31	☾ in apoge			30	♂ ☾ ♀ 13h.
OCTOBER		NOVEMBER		DECEMBER	
1	♂ in aphelion	8	♂ ☉ ♀ 21½h.	10	♂ ☾ ♀ 11h.
9	☾ in perige	8	♂ ☾ in ☿	10	♀ stationary
16	♂ ☾ ♀ 14h.	13	♂ ☾ in perihelion	12	☐ ☉ ♀ 13h.
17	♂ ☾ along. max.	13	♂ ☾ ♀ 10h.	16	♀ in ☿
20	♀ along. max.	15	♂ ☾ stationary	16	♂ ☾ ♀ 9h.
21	☾ in apoge	18	♂ ☾ stationary	17	♂ ☾ ♀ 13h.
22	♂ ☾ ♀ 9½h.	19	♂ ☾ ♀ 0h.	17	♂ ☾ in ☿
23	♂ ☾ ♀ 3½h.	19	♂ ☾ ♀ 21h.	18	♂ ☾ ♀ 3½h.
23	☉ in ♀ 15h. 8m.	20	♂ ☾ ♀ 16½h.	21	☉ in ♀ 23h. 52m
24	♂ ☾ ♀ 5h.	22	☉ in ♀ 11h. 25m.	23	♂ ☾ ♀ 16h.
27	♂ ☾ ♀ 23h.	23	♂ ☾ ♀ 4h.	24	♂ ☉ ♀ 13½h.
29	♂ ☾ stationary	25	♂ ☾ along. max.	25	♂ ☾ ♀ 4h.
30	♂ ☾ ♀ 2½h.	27	♂ ☾ ♀ 21½h.	26	☐ ☉ ♀ 21½h.
				26	♂ in aphelion
				31	♂ stationary
				31	☉ in perihelion

## A Table of the Sun's semi-diurnal Arches, or Times

## The Sun's Declination North.

Degr.	Lat. 49		Lat. 50		Lat. 51		Lat. 52		Lat. 53		Lat. 54	
	h	m	h	m	h	m	h	m	h	m	h	m
0	6	4	6	4	6	4	6	4	6	4	6	4
1	6	8	6	8	6	8	6	9	6	9	6	9
2	6	12	6	13	6	13	6	14	6	14	6	15
3	6	17	6	18	6	18	6	19	6	19	6	29
4	6	22	6	22	6	22	6	24	6	25	6	25
5	6	26	6	27	6	27	6	29	6	30	6	31
6	6	31	6	32	6	33	6	34	6	36	6	37
7	6	36	6	37	6	38	6	40	6	41	6	43
8	6	41	6	42	6	43	6	45	6	47	6	48
9	6	45	6	47	6	48	6	50	6	52	6	54
10	6	50	6	52	6	54	6	56	6	58	7	0
11	6	55	6	57	6	59	7	1	7	3	7	6
12	7	0	7	2	7	4	7	7	7	9	7	12
13	7	5	7	7	7	10	7	12	7	15	7	18
14	7	10	7	13	7	15	7	18	7	21	7	24
15	7	15	7	18	7	21	7	24	7	27	7	31
16	7	21	7	24	7	27	7	30	7	33	7	37
17	7	26	7	29	7	33	7	36	7	40	7	44
18	7	31	7	35	7	38	7	42	7	46	7	51
19	7	37	7	41	7	45	7	49	7	53	7	58
20	7	43	7	47	7	51	7	55	8	0	8	5
21	7	49	7	53	7	57	8	2	8	7	8	12
22	7	55	7	59	8	4	8	9	8	14	8	20
23	8	1	8	6	8	11	8	16	8	22	8	28
24	8	7	8	12	8	18	8	24	8	30	8	36

By these Tables the Times of the Sun's Rising and Setting may be found, in any Part of the Kingdom of *Great-Britain* or *Ireland*, after the following Manner: Where the Latitude of the Place is known, take the Sun's Declination out of the Table, on the Noon of the Day you desire to know the Time of his Rising and Setting; and with it, according as it is either North or South, enter these Tables in the Left-

of his visible half Duration above the Horizon.

The Sun's Declination South.

Degr.	Lat. 49		Lat. 50		Lat. 51		Lat. 52		Lat. 53		Lat. 54	
	h	m	h	m	h	m	h	m	h	m	h	m
0	6	4	6	4	6	4	6	4	6	4	6	4
1	5	59	5	59	5	58	5	58	5	58	5	58
2	5	54	5	54	5	53	5	53	5	53	5	53
3	5	49	5	49	5	49	5	48	5	48	5	47
4	5	45	5	44	5	44	5	43	5	42	5	42
5	5	40	5	39	5	39	5	38	5	37	5	36
6	5	35	5	35	5	34	5	33	5	31	5	30
7	5	31	5	30	5	29	5	27	5	26	5	25
8	5	26	5	25	5	23	5	22	5	21	5	19
9	5	21	5	20	5	18	5	17	5	16	5	13
10	5	17	5	15	5	13	5	11	5	10	5	8
11	5	12	5	10	5	8	5	6	5	4	5	2
12	5	7	5	5	5	3	5	0	4	58	4	56
13	5	2	5	0	4	57	4	55	4	52	4	50
14	4	57	4	54	4	52	4	49	4	47	4	44
15	4	52	4	49	4	46	4	44	4	41	4	37
16	4	46	4	45	4	41	4	38	4	34	4	31
17	4	41	4	38	4	35	4	32	4	28	4	23
18	4	36	4	33	4	29	4	26	4	22	4	18
19	4	30	4	27	4	23	4	19	4	15	4	11
20	4	25	4	21	4	17	4	13	4	9	4	4
21	4	19	4	15	4	11	4	6	4	2	3	57
22	4	13	4	9	4	4	4	0	3	55	3	50
23	4	7	4	3	3	58	3	53	3	47	3	42
24	4	1	3	56	3	51	3	46	3	40	3	34

Left-hand Column, under the Word Degrees; then look for the Latitude of the Place in the Top of the Table; and in that Column, against the Sun's Declination, will be found the Time of his visible half Duration above the Horizon, or Time of his Setting, correct by Refraction; then subtract the Time of his Setting from 12 Hours, the Remainder will be the Time of his Rising; double the Time of his Setting, the



# Semi-diurnal Arcs. White.

Table of the Sun's semi-diurnal Arches, or Times

The Sun's Declination North.

Lat. 55		Lat. 56		Lat. 57		Lat. 58		Lat. 59		Lat. 60	
h	m	h	m	h	m	h	m	h	m	h	m
6	4	6	4	6	4	6	4	6	4	6	4
6	9	6	10	6	10	6	10	6	11	6	11
6	15	6	16	6	16	6	17	6	17	6	18
6	21	6	22	6	22	6	23	6	24	6	25
6	27	6	28	6	29	6	30	6	31	6	32
6	32	6	34	6	35	6	36	6	38	6	39
6	38	6	40	6	41	6	43	6	44	6	46
6	44	6	46	6	48	6	49	6	51	6	53
6	50	6	52	6	54	6	56	6	58	7	1
6	56	6	58	7	1	7	3	7	5	7	8
7	2	7	5	7	7	7	10	7	13	7	16
7	8	7	10	7	14	7	17	7	20	7	23
7	15	7	18	7	21	7	24	7	27	7	31
7	21	7	24	7	28	7	31	7	35	7	39
7	28	7	31	7	35	7	39	7	43	7	47
7	34	7	39	7	42	7	46	7	51	7	56
7	41	7	45	7	49	7	54	7	59	8	4
7	48	7	52	7	57	8	1	8	7	8	13
7	55	8	0	8	5	8	10	8	16	8	22
8	2	8	7	8	13	8	19	8	25	8	32
8	10	8	15	8	21	8	28	8	35	8	42
8	18	8	24	8	30	8	37	8	45	8	53
8	26	8	32	8	39	8	47	8	55	9	4
8	34	8	41	8	49	8	57	9	6	9	16
8	43	8	51	8	59	9	8	9	18	9	29

m will be the Length of the Day ; and double the Time

Rising, the Sum will be the Length of the Night, the Latitude of the Place, and Declination of the Sun, of Degrees and Minutes, then a small Allowance must be for the Minutes in both Cases, which may be done by the use of an ordinary Capacity by a mental Proportion.

Thus, to find the Time of the Sun's Rising and Setting

of his visible half Duration above the Horizon.

The Sun's Declination South.

Degr.	Lat. 55		Lat. 56		Lat. 57		Lat. 58		Lat. 59		Lat. 60	
	h	m	h	m	h	m	h	m	h	m	h	m
0	6	4	6	4	6	4	6	4	6	4	6	4
1	5	58	5	58	5	58	5	58	5	57	5	57
2	5	52	5	52	5	52	5	51	5	51	5	50
3	5	47	5	46	5	45	5	45	5	44	5	43
4	5	41	5	40	5	39	5	38	5	37	5	36
5	5	35	5	34	5	33	5	32	5	31	5	29
6	5	29	5	28	5	27	5	25	5	24	5	22
7	5	23	5	22	5	20	5	19	5	17	5	15
8	5	17	5	16	5	14	5	12	5	10	5	8
9	5	12	5	10	5	8	5	5	5	3	5	2
10	5	5	5	3	5	1	4	59	4	56	4	53
11	4	59	4	57	4	54	4	52	4	49	4	46
12	4	53	4	51	4	48	4	45	4	42	4	38
13	4	47	4	44	4	41	4	38	4	34	4	30
14	4	41	4	37	4	34	4	30	4	27	4	23
15	4	34	4	31	4	27	4	23	4	19	4	14
16	4	27	4	24	4	20	4	15	4	11	4	6
17	4	21	4	17	4	12	4	8	4	3	3	57
18	4	14	4	9	4	5	4	0	3	54	3	48
19	4	7	4	2	3	56	3	51	3	45	3	39
20	3	59	3	54	3	49	3	43	3	36	3	29
21	3	52	3	46	3	40	3	34	3	27	3	19
22	3	44	3	38	3	31	3	24	3	17	3	9
23	3	36	3	29	3	23	3	15	3	6	2	57
24	3	27	3	20	3	13	3	5	2	55	2	45

at Aberdeen in Scotland, on the Longest Day; the Latitude of that Place accounted 57 Degr. 7 Min. North, and the Sun's Declination 23 Degr. 1 Min. likewise North. By these you will find by the Table, that 5 Min. of the Sun's Declination, and 1 Min. for the Latitude of the Place, are both to be added to 8 Hours 49 Min. the Time belonging to 57 Degr. of Latitude and 23 Degr. of North Declination, and the Sum will be 8 Hours 55 Min. the Time of his apparent setting at Aberdeen, on the longest Day, whose Complement to 12 Hours, viz. 3 Hours 5 Min. will be the Time of his Rising, &c.

A Table of the Sun's Right-Ascension in Time, the greatest

Degt.	♈			♉			♊			♋			♌			♍		
	h	m	s	h	m	s	h	m	s	h	m	s	h	m	s	h	m	s
0	0	0	0	1	51	37	3	51	15	6	0	0	8	8	45	10	8	23
1	0	3	40	1	55	27	3	55	25	6	4	22	8	12	54	10	12	12
2	0	7	20	1	59	17	3	59	36	6	8	43	8	17	3	10	16	0
3	0	11	0	2	3	8	4	3	48	6	13	5	8	21	11	10	19	48
4	0	14	41	2	6	59	4	8	0	6	17	26	8	25	19	10	23	35
5	0	18	21	2	10	51	4	12	13	6	21	48	8	29	26	10	27	22
6	0	22	2	2	14	44	4	16	26	6	26	9	8	33	31	10	31	8
7	0	25	42	2	18	37	4	20	40	6	30	30	8	37	37	10	34	54
8	0	29	23	2	22	31	4	24	55	6	34	31	8	41	41	10	38	40
9	0	33	4	2	26	25	4	29	10	6	39	11	8	45	45	10	42	25
10	0	36	45	2	30	20	4	33	26	6	43	31	8	49	48	10	46	9
11	0	40	26	2	34	16	4	37	42	6	47	51	8	53	51	10	49	53
12	0	44	8	2	38	13	4	41	59	6	52	11	8	57	52	10	53	37
13	0	47	50	2	42	10	4	46	16	6	56	31	9	1	53	10	57	20
14	0	51	32	2	46	8	4	50	34	7	0	50	9	5	53	11	1	3
15	0	55	14	2	50	7	4	54	52	7	5	8	9	9	53	11	4	46
16	0	58	5	2	54	7	4	59	10	7	9	26	9	13	52	11	8	28
17	1	2	40	2	58	7	5	3	29	7	13	44	9	17	50	11	12	10
18	1	6	23	3	2	8	5	7	49	7	18	1	9	21	47	11	15	52
19	1	10	7	3	6	9	5	12	9	7	22	18	9	25	44	11	19	34
20	1	13	51	3	10	12	5	16	29	7	26	34	9	29	40	11	23	15
21	1	17	35	3	14	15	5	20	49	7	30	50	9	33	35	11	26	56
22	1	21	20	3	18	19	5	25	9	7	35	5	9	37	29	11	30	37
23	1	25	6	3	22	23	5	29	30	7	39	20	9	41	23	11	34	18
24	1	28	52	3	26	29	5	33	51	7	43	34	9	45	16	11	37	58
25	1	32	38	3	30	35	5	38	12	7	47	47	9	49	9	11	41	39
26	1	36	25	3	34	41	5	42	34	7	52	0	9	53	1	11	45	19
27	1	40	12	3	38	49	5	46	55	7	56	12	9	56	52	11	49	0
28	1	44	0	3	42	57	5	51	17	8	0	24	10	0	43	11	52	40
29	1	47	48	3	47	6	5	55	38	8	4	35	10	4	33	11	56	20
30	1	51	37	3	51	15	6	0	0	8	8	45	10	8	23	12	0	0

The time of the southing or meridian transits of the fixed stars in pa. 46, may be found thus. On the noon of the day, preceding the night in which you want to know the time of the southing of any of those stars, find the sun's place in the Ephemeris, and with it take out of the above table his right ascension in time; this you may do by inspection to a minute, which will be sufficient for your present purpose. Then from the right-ascension of the star in pa. 46, corrected to the proposed time, by means of the numbers in the column of annual differences, subtract the right-ascension of the Sun, the remainder will be the estimate time of the star's southing, and will not differ from the true time above 2 or 3 minutes at most, which may be near enough for ordinary uses. But when great exactness is required, reduce the Sun's place to this estimate time, and with it find in the above table his right ascension to seconds, which being subtracted from that of the star, the remainder will be

Obliquity of the Ecliptic being  $23^{\circ} 28'$ .

Degr.	$\alpha$			$\eta$			$\zeta$			$\gamma$			$\delta$			$\epsilon$		
	h	m	s	h	m	s	h	m	s	h	m	s	h	m	s	h	m	s
0	12	0	0	13	51	37	15	51	15	18	0	0	20	8	45	22	8	23
1	12	3	40	13	55	27	15	55	25	18	4	22	20	12	54	22	12	12
2	12	7	20	13	59	17	15	59	36	18	8	43	20	17	3	22	16	0
3	12	11	0	14	3	8	16	3	48	18	13	5	20	21	11	22	19	48
4	12	14	41	14	6	59	16	7	0	18	17	26	20	25	19	22	23	35
5	12	18	21	14	10	51	16	12	13	18	21	48	20	29	26	22	27	22
6	12	22	2	14	14	44	16	16	26	18	26	9	20	33	31	22	31	8
7	12	25	42	14	18	37	16	20	40	18	30	30	20	37	37	22	34	54
8	12	29	23	14	22	31	16	24	55	18	34	51	20	41	41	22	38	40
9	12	33	4	14	26	25	16	29	10	18	39	11	20	45	45	22	42	25
10	12	36	45	14	30	20	16	33	26	18	43	31	20	49	48	22	46	9
11	12	40	26	14	34	16	16	37	42	18	47	51	20	53	51	22	49	53
12	12	44	8	14	38	13	16	41	59	18	52	11	20	57	52	22	53	37
13	12	47	50	14	42	10	16	46	16	18	56	31	21	1	53	22	57	20
14	12	51	32	14	46	8	16	50	34	19	0	50	21	5	53	23	1	3
15	12	55	14	14	50	7	16	54	52	19	5	8	21	9	53	23	4	46
16	12	58	57	14	54	7	16	59	10	19	9	26	21	13	52	23	8	28
17	13	2	40	14	58	7	17	3	29	19	13	44	21	17	50	23	12	10
18	13	6	23	15	2	8	17	7	49	19	18	1	21	21	47	23	15	52
19	13	10	7	15	6	9	17	12	9	19	22	18	21	25	44	23	19	34
20	13	13	51	15	10	12	17	16	29	19	26	34	21	29	40	23	23	15
21	13	17	35	15	14	15	17	20	49	19	30	50	21	33	35	23	26	56
22	13	21	20	15	18	19	17	25	9	19	35	5	21	37	29	23	30	37
23	13	25	6	15	22	23	17	29	30	19	39	20	21	41	23	23	34	18
24	13	28	52	15	26	29	17	33	51	19	43	34	21	45	16	23	37	58
25	13	32	38	15	30	35	17	38	12	19	47	47	21	49	9	23	41	39
26	13	36	25	15	34	41	17	42	34	19	52	0	21	53	1	23	45	19
27	13	40	12	15	38	49	17	46	55	19	56	12	21	56	52	23	49	0
28	13	44	0	15	42	57	17	51	17	20	0	24	22	0	43	23	52	40
29	13	47	48	15	47	6	17	55	38	20	4	35	22	4	33	23	56	20
30	13	51	37	15	51	15	18	0	0	20	8	45	22	8	23	24	0	0

the true time of the star's culminating or southing. And if from the time of the star's southing you subtract the semidiurnal arc belonging to it, the remainder will be the time of the star's rising; and being added to it, the sum will be the time of its setting.

Annexed is an Ex. of SIRIUS for Jan. 31, 1802.

☉'s place at noon	$10^{\circ} 59'$	h m
Rt. Asc. of Sirius	-	6 36 2
☉'s rt. asc. subtract	-	20 53 4
*'s estimate southing	-	9 42 3
☉'s rt. asc. at that time sub.	-	20 53 5
*'s true southing	-	9 43 3
Semid. arc sub. & add	-	4 36 5
*'s rising aftern.	-	5 6 4
*'s setting	-	14 20 3

Table of the mean Right-Ascensions in time, and Declinations, and their Annual Difference; also the Semidiurnal-Arcs, and Magnitudes, of 40 remarkable fixed Stars, with their Names, and Bayer's Literal Characters, for January 1, 1800.

Names of the Stars	Ch.	Rt. Asc.	A. Di.	Declination	A. Diff.	Semid. Ar.	M
		h m s	sec.	° ' "	seconds	h m s	
Alstar, Alruccabah	$\alpha$	0 52 20	12.53	38 14 25	n +19.6	sets not	2
Andro. gird. Mirach	$\beta$	0 58 34	3.30	34 33 29	n +19.4	10 7 32	2
Andro. foot, Almach	$\gamma$	1 51 41	3.62	41 21 50	n +17.7	sets not	2
Antares's follow. horn	$\alpha$	1 55 55	3.34	22 30 47	n +17.5	8 9 35	2
Antares's jn. Menkar	$\alpha$	2 51 50	3.12	3 18 8	n +15.2	6 19 48	2
Antares's head, Algol	$\beta$	2 55 12	3.85	40 10 29	n +14.5	sets not	2
Antares's ft. Algenib	$\alpha$	3 10 7	4.20	49 8 15	n +13.6	sets not	2
Antares's rightest of the 7 ft.	$\alpha$	3 35 37	3.54	23 28 36	n +11.9	8 16 40	3
Antares's eye, Aldebar	$\alpha$	4 24 27	3.42	16 5 43	n +8.0	7 28 51	1
Antares's sh. Capella	$\alpha$	5 1 56	4.41	45 46 40	n +4.5	sets not	1
Antares's l. foot, Rigel	$\beta$	5 4 56	2.87	8 26 24	n -5.1	5 20 28	1
Antares's north horn	$\beta$	5 13 40	3.78	28 25 37	n +4.1	8 57 12	2
Antares's l. sh. Bellat.	$\gamma$	5 14 25	3.21	6 9 21	n +4.0	6 34 41	2
Antares's girdle	$\delta$	5 26 4	3.04	7 20 27	n -3.0	5 56 42	2
Antares's r. sh. Betelg.	$\alpha$	5 44 21	3.24	7 21 41	n +1.7	6 40 58	1
Antares's Dog, Sirius	$\alpha$	6 36 20	2.65	16 27 2	n +4.4	4 36 55	1
Antares's Twin, Castor	$\alpha$	7 21 49	3.86	32 18 59	n -6.8	9 38 21	1
Antares's little Dog, Procyon	$\alpha$	7 28 49	3.14	5 43 45	n -8.7	6 32 50	1
Antares's d Twin, Pollux	$\beta$	7 33 3	3.69	28 29 59	n -7.6	8 58 13	2
Antares's Hydra's heart, Alp.	$\alpha$	9 17 45	2.94	7 46 46	n +14.8	5 24 20	2
Antares's yon's heart, Regu.	$\alpha$	9 57 42	3.20	12 56 29	n -16.9	7 11 28	1
Antares's Bear, L. Pointer	$\beta$	10 49 40	3.71	57 27 3	n -19.1	sets not	2
Antares's Bear, U. Pointer	$\alpha$	10 51 16	3.85	62 49 45	n -19.1	sets not	2
Antares's lion's tail, Deneb	$\beta$	11 38 50	3.06	15 41 36	n -19.8	7 27 18	2
Antares's Bear's tail, Aliath	$\delta$	12 45 13	2.75	57 2 57	n -19.7	sets not	2
Antares's Argus's spike	$\alpha$	13 14 40	3.14	10 6 37	n +18.8	5 12 20	1
Antares's dragon's tail	$\alpha$	13 58 59	1.63	65 20 8	n -17.4	sets not	2
Antares's cootes, Arcturus	$\alpha$	14 6 32	2.72	20 13 43	n -19.1	7 55 26	1
Antares's libra, South. Scale	$\alpha$	14 39 39	3.30	15 11 54	n +15.3	4 44 23	2
Antares's libra, North. Scale	$\beta$	15 6 16	3.22	8 38 3	n +13.8	5 19 57	2
Antares's north Crown	$\alpha$	15 25 58	2.53	27 23 58	n -12.3	8 48 36	2
Antares's cor. heart, Antares	$\alpha$	16 17 10	3.65	25 58 21	n +8.6	3 34 6	1
Antares's er. head, R. Alget.	$\alpha$	17 5 32	2.73	14 37 48	n -4.7	7 20 41	2
Antares's head of Serpentiarius	$\alpha$	17 25 39	2.77	12 43 9	n -3.0	7 9 50	2
Antares's rag. head, Rastaben	$\gamma$	17 51 58	1.39	51 31 5	n -0.7	sets not	2
Antares's he Harp, Lyra	$\alpha$	18 30 10	1.99	38 36 26	n -12.1	sets not	1
Antares's he Eagle, Atair	$\alpha$	19 41 1	2.92	8 21 11	n -7.1	6 45 57	2
Antares's Fish, Fomalhaut	$\alpha$	22 46 34	3.33	30 40 31	n -5.1	2 52 6	1
Antares's gafus' w. Markab	$\alpha$	22 54 48	2.96	14 7 56	n +19.7	7 17 10	2
Antares's Andromeda's head	$\alpha$	23 58 4	3.07	27 59 34	n +20.8	8 52 19	2

A Table of the Longitudes, Latitudes, and Magnitudes of the most remarkable fixed Stars that the Moon can Eclipse, or make a near Appulse unto; exactly rectified to the beginning of the year 1800.

Con.	Cha.	Long.	Lat.	Mag.	Con.	Cha.	Long.	Lat.	Mag.
		° ' "	° ' "			° ' "	° ' "		
♈	♈	11 21 34	2 9 44 n	4	♈	12 17 52	0 21 48 n	2	
		14 44 33	1 5 37 n	4	♈	18 13 0	1 49 14 s	3	
		17 4 48	0 13 11 s	4	♈	22 20 32	4 24 41 s	3	
♈	♈	8 18 3 7	1 48 7 n	4	♈	24 34 56	4 2 52 n	4	
		27 12 7	4 1 36 n	3	♈	24 58 10	0 1 1 n	4	
♈	♈	3 0 23	5 45 30 s	3	♈	27 4 35	3 29 24 n	4	
		5 40 0	2 35 37 s	3	♈	27 41 9	0 6 53 n	4	
		6 59 43	5 29 2 s	1	♈	29 46 51	1 57 17 s	3	
		19 47 0	5 21 59 n	2	♈	0 8 58	5 26 15 s	3	
		21 59 38	2 13 29 s	3	♈	0 23 56	1 2 18 n	2	
♈	♈	0 39 0	0 55 4 s	4	♈	1 51 13	1 39 52 n	4	
		2 30 25	0 50 34 s	3	♈	5 0 36	4 0 23 s	4	
		5 18 43	6 46 12 s	2	♈	6 58 21	4 32 17 s	1	
		7 8 53	2 2 28 n	3	♈	8 40 5	6 5 21 s	4	
		15 43 52	0 12 19 s	3	♈	28 28 26	6 56 48 s	3	
		20 27 57	6 40 4 n	1	♈	0 25 21	2 22 24 n	4	
♈	♈	4 15 14	3 10 22 n	4	♈	3 31 54	2 5 31 s	4	
		5 55 32	0 4 13 n	4	♈	7 33 11	3 55 22 s	3	
		13 51 46	3 1 57 s	4	♈	9 35 40	3 24 55 s	3	
		21 28 1	3 46 1 s	4	♈	12 2 55	5 2 33 s	3	
		26 6 46	4 51 9 n	4	♈	12 11 59	0 53 36 n	3	
		27 3 12	0 27 27 n	1	♈	13 27 44	1 28 7 n	4	
		3 35 48	0 8 29 n	4	♈	1 35 18	4 36 46 n	3	
		18 43 10	0 31 21 s	4	♈	17 24 23	4 57 31 s	4	
		22 14 55	3 2 51 s	4	♈	18 59 16	2 32 6 s	4	
♈	♈	24 19 10	0 41 36 n	3	♈	20 44 28	2 33 40 s	3	
		0 34 33	5 4 42 n	3	♈	25 55 40	2 3 47 s	4	
		2 2 39	1 22 24 n	3	♈	0 28 5	5 24 22 n	4	
		7 28 4	2 48 57 n	3	♈	8 47 6	0 22 57 s	4	
		21 3 13	2 2 11 s	1	♈	14 20 58	1 2 8 s	4	

This table shewing the mean longitudes of 60 stars to the beginning of the year 1800, their mean longitudes for any other time may be found if 50 $\frac{1}{2}$  seconds be added for each succeeding, and subtracted for each preceding year and proportionably for a part of a year. Thus, to find the longitude of the first star ♈♈, or ♈ piscium, for Feb. 15, 1802, or 2 years and one eighth after the tabular time; here 2 $\frac{1}{8}$  times 50 $\frac{1}{2}$  sec. make 1' 47", which being added to the tabular longitude, gives ♈ 11° 23' 21" for the longitude required at the proposed time.—The latitudes vary not.

## The Latitudes and Longitudes of Ninety remarkable Places.

	Lat.	Long.		Lat.	Long.
Alexandria, Egypt	31 11 n	30 17 e	Isfahan	32 25 n	52 55 e
Amsterdam, Hol.	52 23 n	4 52 e	Land's end	50 6 n	5 50 w
Archangel, Ruf.	64 34 n	38 30 e	Leghorn	43 33 n	10 25 e
Athens	37 40 n	23 52 e	Leoftoff	52 38 n	1 54 e
Babelmandel	12 50 n	43 50 e	Liverpool	53 22 n	3 10 w
Batavia	6 12 s	106 45 e	Lima	12 1 s	76 50 w
Bengal	22 0 n	92 45 e	Lisbon	38 42 n	9 4 w
Berlin	52 33 n	13 26 e	Lizard	49 57 n	5 21 w
Bombay Isle	19 42 n	73 3 e	London	51 31 n	0 0
Boston, Amer.	42 25 n	70 37 w	Madras	13 8 n	80 7 e
Breslau	51 3 n	17 13 e	Madrid	40 25 n	3 45 w
Brest	48 23 n	4 30 w	Manilla	14 30 n	120 25 e
Bristol	51 28 n	2 30 w	Marfeillea	43 18 n	5 21 e
Buenos Ayres	34 35 s	58 0 w	Mexico	19 54 n	100 5 w
Cadiz	36 31 n	6 7 w	Mississipi, mouth	29 0 n	89 17 w
Calais	50 58 n	1 51 e	Moscow	55 25 n	37 51 e
Cairo, Egypt	30 2 n	31 26 e	Naples	40 51 n	14 19 e
Cambridge	52 13 n	0 4 e	Newcastle	55 0 n	1 18 w
Canaria Islands	28 1 n	15 0 w	Oporto	40 53 n	8 35 w
Canton	23 8 n	113 2 e	Orkney I. northend	59 24 n	3 23 w
Cape of Goodhope	34 29 s	18 23 e	Oxford	51 45 n	1 16 w
Cape Horn	55 59 s	67 26 w	Paris	48 50 n	2 25 e
Carthegena	10 27 n	75 26 w	Pekin	39 55 n	116 22 e
Charles Town Am.	33 22 n	79 50 w	Petersburg	59 56 n	30 19 e
Constantinople	41 0 n	28 53 e	Philadelphia	39 57 n	75 18 w
Copenhagen	55 41 n	12 50 e	Plymouth	50 24 n	4 15 w
Corinth	37 30 n	23 0 e	Port Mahon	39 51 n	3 53 e
Corke	51 54 n	8 30 w	Port Royal, Jam.	17 40 n	76 37 w
Dantzic	54 22 n	18 36 e	Portsmouth	50 48 n	1 17 w
Dover	51 7 n	1 19 e	Prague	50 5 n	14 15 e
Dublin	53 20 n	6 55 w	Quebec	46 55 n	71 12 w
Edinburgh	55 58 n	3 1 w	Rome	41 54 n	12 32 e
Ferrio, Isle	27 48 n	18 6 w	Scilly Isles	50 0 n	6 45 w
Finisterre, Cape	42 57 n	9 36 w	Smyrna	38 28 n	27 25 e
Genoa	44 25 n	8 41 e	Stockholm	59 22 n	18 12 e
Gibraltar	36 5 n	4 46 w	Syracuse	37 4 n	15 20 e
Glasgow	55 52 n	4 5 w	Tangier	35 55 n	5 45 w
Goa	15 31 n	73 50 e	Teneriff	28 16 n	16 32 w
Göttingen	51 32 n	9 58 e	Tunis	36 47 n	10 16 e
Greenwich	51 29 n	0 5 e	Turin	45 5 n	7 45 e
Hacluit's Head.	79 55 n	12 0 e	Venice	45 27 n	12 24 e
Halifax, America	44 46 n	63 20 w	Verd, Cape	14 47 n	17 28 w
Havanna	23 12 n	81 11 w	Vienna	48 11 n	16 28 e
Helena, I. St.	15 55 s	5 49 w	Upsal	59 52 n	17 43 e
Jerusalem	31 50 n	35 25 e	Uraniberg.	55 54 n	12 52 e

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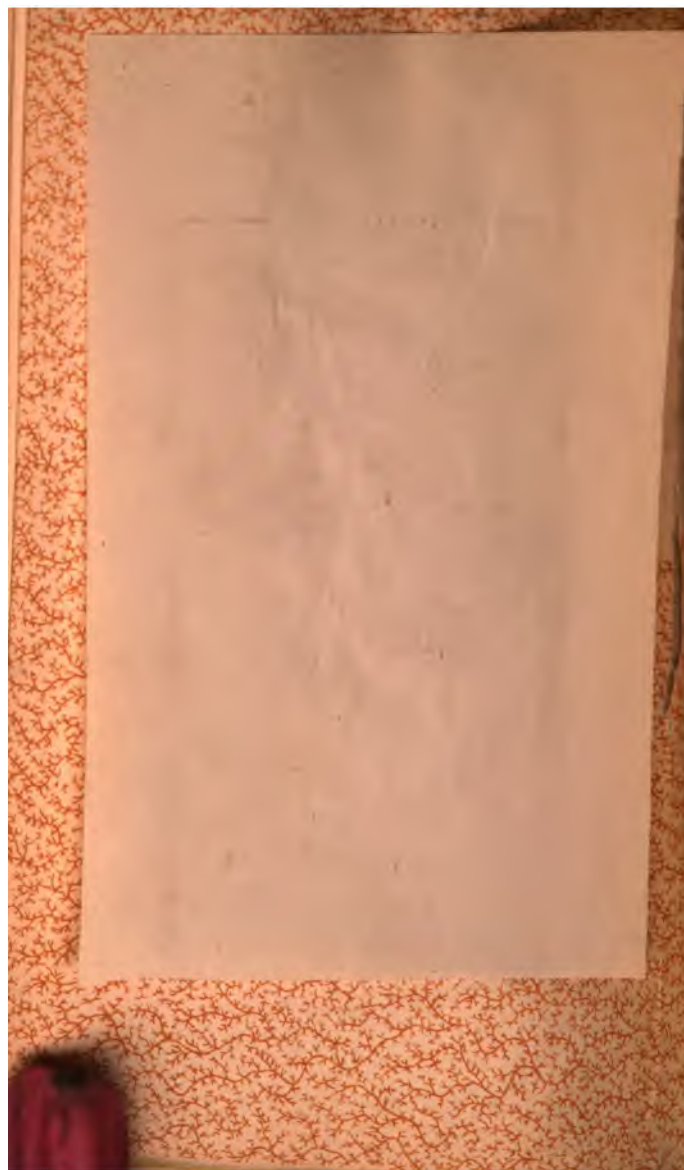
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